



**WESTERN PLACER**  
WASTE MANAGEMENT AUTHORITY

*PAUL JOINER, LINCOLN, CHAIR*  
ROBERT WEYGANDT, PLACER COUNTY  
JOHN ALLARD, ROSEVILLE  
JACK DURAN, PLACER COUNTY  
SCOTT YUILL, ROCKLIN  
KEN GREHM, EXECUTIVE DIRECTOR

## **MEETING OF THE BOARD OF DIRECTORS**

### **AGENDA**

**May 11, 2017 6:00 PM**

**Materials Recovery Facility Administration Building  
3033 Fiddymment Road, Roseville, CA 95747**

Materials related to an item on this Agenda submitted to the Board of Directors after distribution of the agenda packet are available for public inspection at the Clerk of the Board, 3033 Fiddymment Road, Roseville, CA 95747, during normal business hours and at the meeting location immediately before and during the meeting. The Western Placer Waste Management Authority is committed to ensuring that persons with disabilities are provided the resources to participate fully in its public meetings. If you are hearing impaired, we have listening devices available. If you require additional disability-related modifications or accommodations, including auxiliary aids or services, please contact the Clerk of the Board at (916) 543-3960. If requested, the agenda shall be provided in appropriate alternative formats to persons with disabilities. All requests must be in writing and must be received by the Clerk five business days prior to the scheduled meeting for which you are requesting accommodation. Requests received after such time will be accommodated if time permits.

1. Call Meeting to Order
2. Pledge of Allegiance (Director Weygandt)
3. Roll Call
4. Statement of Meeting Procedures (Clerk of the Board)
5. Agenda Approval
6. Public Comment

This is a time when persons may address the Board regarding items not on this Agenda. It is requested that comments be brief, since the Board is not permitted to take any action on items addressed under Public Comment.

7. Consent Agenda

- a. Agreement with 3fold Communications for Public Awareness and Outreach Services (Keith Schmidt) Pg. 5

Authorize the Executive Director or designee, upon review and approval by WPWMA Counsel and contingent upon approval by your Board of the FY 2017/18 Preliminary Budget, to enter into an agreement with 3fold Communications to provide professional services professional services related to public awareness regarding the WPWMA's facilities and services for an amount not to exceed \$165,826.

- b. Agreement with Red Shoe Productions for School Outreach Services (Keith Schmidt) Pg. 17

Authorize the Chair, contingent upon approval by your Board of the FY 2017/18 Preliminary Budget, to sign an agreement with Red Shoe Productions to provide professional services related to the WPWMA's public education and awareness program for an amount not to exceed \$56,000.

***RECYCLING AND DISPOSAL MADE EASY***

11476 C AVENUE AUBURN, CA 95603  
(916) 543-3960 / (916) 543-3990 FAX  
WWW.WPWMA.COM

- c. Temporary HHW Collection Event in Auburn (Keith Schmidt) Pg. 23  
Contingent upon approval by your Board of the FY 2017/18 Preliminary Budget, authorize an increase in funding to Blanket Purchase Order (BPO) 22917 with Stericycle Environmental Solutions, Inc. dba PSC Environmental Services LLC (Stericycle) of \$65,000, for the purposes of conducting a Household Hazardous Waste (HHW) and electronic waste collection event in Auburn.
  - d. Support of the California Product Stewardship Council (Keith Schmidt) Pg. 25  
Contingent upon approval by your Board of the FY 2017/18 Preliminary Budget, authorize payment of \$1,500 to the California Product Stewardship Council.
  - e. Second Amendment to the Agreement with Golder for the Design, Permitting, and CQA Services for an Upgrade to the Landfill Gas Collection and Control System (Keith Schmidt) Pg. 27  
Authorize the Executive Director or designee, upon review and approval by WPWMA Counsel, to sign the Second Amendment to Agreement 45172 with Golder Associates, Inc. to provide additional electrical engineering and related services for Project 02610 – Landfill Gas Collection and Control System Upgrade for an amount not to exceed \$91,518, increasing the total not-to-exceed fee of the Agreement to \$539,076.
8. Announcements & Information
- a. Reports from Directors ----
  - b. Report from the Executive Director (Ken Grehm) ----
  - c. Financial Reports (Valerie Bayne) Pg. 33
  - d. Monthly Tonnage Reports (Keith Schmidt) ----
  - e. Quarterly MRF Operator's Report (Nortech Waste) Pg. 37
  - f. Quarterly Landfill Operator's Report (Nortech Landfill) Pg. 43
  - g. Third Party Analysis of the Landfill Gas System (Eric Oddo) Pg. 45
  - h. Odor Update: Odor Notifications Received in March 2017 (Eric Oddo) Pg. 49
9. Action Items
- a. Minutes of the Board Meeting held February 9, 2017 Pg. 59  
Approve as submitted.
  - b. Minutes of the Board Meeting held April 13, 2017 Pg. 63  
Approve as submitted.

- c. Eighth Amendment to the Lease Agreement with Energy 2001 Pg. 67  
(Eric Oddo)  
Authorize the Chair to sign the Eighth Amendment to the Lease Agreement with Energy 2001 which modifies the royalty rate schedule in the Agreement.
  - d. Fiscal Year 2017/18 Preliminary Budgets (Eric Oddo) Pg. 79  
Approve the Fiscal Year 2017/18 Preliminary Budgets for the Operating Fund, the Closure/Postclosure Fund and the Self Insurance Fund as presented in Exhibits A and B.
- 10. Upcoming Agenda Items  
Identification of any items the Board would like staff to address at a future meeting.
  - 11. Adjournment

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**MEMORANDUM  
WESTERN PLACER WASTE MANAGEMENT AUTHORITY**

TO: **WPWMA BOARD OF DIRECTORS** DATE: **MAY 11, 2017**  
FROM: **KEN GREHM / MICHELLE WHITE**  
SUBJECT: **AGREEMENT WITH 3FOLD COMMUNICATIONS FOR PUBLIC  
AWARENESS AND OUTREACH SERVICES**

**RECOMMENDED ACTION:**

Authorize the Executive Director or designee, upon review and approval by WPWMA Counsel and contingent upon approval by your Board of the FY 2017/18 Preliminary Budget, to enter into an agreement with 3fold Communications to provide professional services related to public awareness regarding the WPWMA's facilities and services for an amount not to exceed \$165,826.

**BACKGROUND:**

The WPWMA has historically contracted with a firm for public education and outreach services to promote the WPWMA's facilities and services, and another firm to educate the public on the importance of proper disposal of used motor oil and oil filters.

In 2015, Placer County's Procurement Services Division solicited proposals on behalf of the WPWMA from firms providing education outreach services. The WPWMA selected the top ranked firm, 3fold Communications (3fold), to design and implement the WPWMA general outreach program. 3fold Communications has delivered an effective public awareness program that has dramatically increased the WPWMA's exposure to and engagement with the public. Their awareness program earned the WPWMA the first place Award of Excellence from the California Association of Public Information Officials (CAPIO), the leading government communications organization in the western states.

Via a similar procurement process, the WPWMA has also historically contracted with a separate public relations firm to conduct education and outreach activities related to the proper disposal of oil and oil filters. The oil campaign includes raising awareness through traditional and digital media outlets, as well as continuing partnerships with auto parts retailers throughout the county to conduct oil filter exchange events. For the upcoming fiscal year staff is recommending adding the oil outreach campaign to the general outreach contract with 3fold. Consolidating the two campaigns into a single outreach contract will result in consistent design elements, cohesive messaging and minimizes administrative costs.

Staff anticipates that the resultant scope of services will be substantially similar to the attached draft Scope of Services which includes a general public awareness campaign to promote key One Big Bin messages and oil related public awareness and outreach.

**ENVIRONMENTAL CLEARANCE:**

Development and implementation of a public education program is categorically exempt under CEQA Guidelines, Article 19, Section 15322, "Education or Training Programs Involving No Physical Changes."

**FISCAL IMPACT:**

The cost of providing the proposed services is \$165,826. Of this amount, \$70,826 will come from annual oil grant funding provided by CalRecycle. Funding for the proposed agreement is included in Account 2555 "Professional Services" of the FY 2017/18 Preliminary Budget.

ATTACHMENT: DRAFT SCOPE OF SERVICES

## **EXHIBIT A-1**

### **SCOPE OF SERVICES**

Consultant shall be responsible for the planning, preparation and execution of all items outlined in this Scope of Services for three main WPWMA programs: general public awareness, used motor oil and filter recycling, and independent evaluation of the WPWMA's school education program. The WPWMA's primary general outreach and school education program goals are to: increase public awareness of the WPWMA's Materials Recovery Facility and its central role in recycling in western Placer County; heighten awareness of free programs available to residents; and promote positive behavior such as waste reduction and proper disposal of certain waste streams. The primary oil/filter outreach program goals are to: increase quantities of used motor oil and filters recycled in Placer County; decrease number of oil filters found in the waste stream at the WPWMA's facility; and raise awareness of oil/filter recycling by making it a well understood, desirable and positive behavior. It is understood by both WPWMA and Consultant that costs associated with media buys under Task 1B of this Scope of Services shall be paid for separately by participating members of Placer County's Regional Recycling Group (RRG), Consultant shall bill these entities separately, and WPWMA shall not be responsible in any way for the costs associated with the media buys.

#### **TASK 1: GENERAL PUBLIC AWARENESS CAMPAIGN**

##### **1A General Outreach Campaign & Media Plan Development**

###### General Outreach Plan

Based on the analysis previously performed by Consultant for the WPWMA and the results of the previous year's outreach campaign conducted by Consultant as part of Blanket Purchase Order No. 22447 with the WPWMA, Consultant shall develop, design, and produce all elements of a consumer-focused, creative campaign plan targeting customers in the WPWMA's service areas.

Consultant shall prepare a draft written General Outreach Plan outlining recommended campaign content and outreach strategies. As part of the draft General Outreach Plan, Consultant shall present to the WPWMA a minimum of two (2) creative concepts for a new sub-campaign that is consistent with the previously developed One Big Bin campaign look, feel and design. The General Outreach Plan shall include two sub-campaigns (one each in the fall and spring) which shall revolve around the incentivized contest and directing customers to the WPWMA and/or One Big Bin websites (WPWMA.com and onebigbin.com) and e-newsletter signup. The General Outreach Plan shall include measurable objectives and examples of campaign deliverables, including but not limited to posters, banners, bill inserts, campaign website landing pages, premium items (bags, mugs, pens etc.), digital ads etc. Consultant shall submit the draft General Outreach Plan to the WPWMA with an approximate recommended campaign budget and timeline that encompasses the design and execution for each element.

WPWMA shall review the draft General Outreach Plan and provide Consultant with a single set of consolidated comments. Based on the consolidated comments, Consultant shall refine the General Outreach Plan's selected concept and associated assets, budgets, and timelines. Consultant shall incorporate WPWMA's comments and submit a complete final General Outreach Plan to the WPWMA prior to initiating any of the recommended elements.

### General Media Plan

Consultant shall prepare a draft written General Media Plan establishing media goals and measurable objectives, key messaging content, key performance indicators and various media strategies, delineated by target audience, including pulsing, continuity and channel selection. Consultant shall submit the draft General Media Plan with a recommended budget and timeline that encompasses the anticipated direct advertising costs (buy) for each media channel.

WPWMA shall review the draft General Media Plan and provide Consultant with a single set of consolidated comments. Based on the consolidated comments, Consultant shall refine the selected media strategies and channels, and their associated budgets, and timelines. Consultant shall incorporate WPWMA's comments and submit a complete final General Media Plan to the WPWMA prior to initiating any of the recommended elements.

Based on the approved General Outreach Plan and General Media Plan, Consultant shall develop the selected assets for placement or usage in media. Asset development shall include up to two (2) rounds of revisions based on a consolidated set of comments from the WPWMA.

Consultant shall also integrate the final outreach campaign theme and messaging into the WPWMA website and One Big Bin website by directly logging into Wordpress to edit appropriate pages.

To further enhance the campaign, Consultant shall manage WPWMA's main Facebook channel to increase effective audience engagement during the active campaign. To accomplish this, Consultant shall create a campaign content calendar, develop messaging and post one to two Facebook posts per week during the campaign.

Because of the effectiveness of the One Big Bin e-newsletter, Consultant shall create an e-newsletter content calendar based on the approved General Outreach Plan and General Media Plan to engage users and send qualified traffic to the WPWMA's website and the One Big Bin website. Using the approved content calendar, Consultant shall develop one blog post every 2 months which will be used as the basis for the e-newsletter. Blog copy editing includes two rounds of revisions based on a consolidated set of comments from the WPWMA.

The following Deliverable dates may be amended upon approval by WPWMA staff.

### Deliverables

#### Plans

- Draft General Outreach Plan submitted within 60 days of Agreement execution

- Final General Outreach Plan submitted within 10 days of receipt of consolidated comments
- Draft General Media Plan submitted within 90 days of Agreement execution
- Final General Media Plan submitted within 10 days of receipt of consolidated comments
- Final Media assets in electronic root file format

Facebook and e-newsletter – schedules for the following Deliverables shall be included in the above plans

- Editorial Calendars
- Content creation and copy editing
- Facebook posts
- Analytics reporting

## **1B General Outreach Campaign Execution**

The Task 1B scope is included here to provide a complete process of how the campaign will progress; however, RRG agencies will be billed directly by Consultant for their portion of the campaign. Consultant shall submit copies of those invoices to the WPWMA for the purpose of documentation and tracking budgets.

In order to reach WPWMA's target audience, Consultant shall procure, manage and monitor all traditional and digital media elements per the approved final General Media Plan. Traditional media buys include, but are not limited to, billboards, cinema, print and radio. Digital media includes Google display, search, social media ads, online radio ads and retargeting visitors from the WPWMA and One Big Bin websites or email newsletter. The RRG jurisdictions are funding the entirety of Task 1B as detailed in Exhibit B. It is understood and acknowledged by both WPWMA and Consultant that Consultant and RRG jurisdictions are simultaneously entering into separate Service Agreements to provide to the Consultant funding for Task 1B.

Consultant shall strategically analyze the paid media against key performance indicators laid out in the final General Outreach Plan and final General Media Plan. In addition, Consultant shall manage the effectiveness of paid media. For example, if Consultant deems, and WPWMA concurs, that a media asset or message under-produces on engagement, then it will be deemed ineffective and Consultant shall refine that particular campaign asset and messaging, as approved by WPWMA. Once refined, the asset or message shall be replaced into the current-running campaign.

### **Deliverables**

- Media buy documentation for traditional and digital media and copies of invoices sent directly to applicable RRG entities

## **1C General Outreach Reporting**

Consultant shall prepare and submit with each monthly invoice a report detailing the general outreach efforts conducted during the prior month.

Consultant shall prepare and submit a final Program Year-End report including a summary of the monthly reports and evaluation of each campaign element and advertising method, as well as the relative effectiveness of each on the success of the overall Program. Consultant shall include a recommendation for continuation or elimination of each campaign element and shall include justifications with supporting documentation for each recommendation. Consultant shall provide all campaign element metrics and information regarding campaign return on investment.

### **Deliverables**

- Monthly Reports
- Year-End Report

## **TASK 2: OIL & FILTER PUBLIC AWARENESS CAMPAIGN**

### **2A Oil Outreach Campaign, & Media Plan Development**

#### **Oil Outreach Plan**

Based on the CalRecycle research and WPWMA's previous used oil campaigns, Consultant shall develop, design, and produce all elements of a consumer-focused, used motor oil and filter recycling campaign plan targeting customers in the WPWMA's service areas.

Consultant shall prepare a draft written Oil Outreach Plan outlining recommended campaign content and outreach strategies. As part of the draft Oil Outreach Plan, Consultant shall present to the WPWMA a minimum of two (2) creative concepts encompassing the overall campaign look, feel and design including colors, graphics, logos, taglines, etc. to promote key messages identified by Consultant. The Oil Outreach Plan shall include measurable objectives, an oil filter exchange recycling event, and examples of campaign assets, including but not limited to posters, banners, bill inserts, campaign website landing pages, premium items (oil recycling containers, rags), digital ads etc. Consultant shall include a recommended campaign budget and approximate timeline that encompasses the design and execution for each element in the draft Oil Outreach Plan.

Based on WPWMA feedback, Consultant shall refine the Oil Outreach Plan's selected concepts and associated assets, budgets, and timelines. Consultant shall submit a complete Final Oil Outreach Plan to the WPWMA.

#### **Oil Media Plan**

Consultant shall prepare a draft written Oil Media Plan establishing media goals and measurable objectives, key messaging content, key performance indicators and various media strategies, delineated by target audience, including pulsing, continuity and channel selection. Consultant shall submit the draft Oil Media Plan with a

recommended budget and timeline that encompasses the anticipated direct advertising costs (buy) for each media channel.

The Oil Media Plan shall include a schedule of deliverables for each selected oil media asset, including timelines, measurable objectives and strategies, and key messages and tactics.

Based on WPWMA feedback, Consultant shall refine the selected media strategies and channels, and their associated budgets, and timelines. Consultant shall submit a complete Final Oil Media Plan to the WPWMA.

Based on the approved Oil Outreach Plans and Oil Media Plan, Consultant shall develop the selected assets for placement or usage in media. Asset development includes up to two (2) rounds of revisions based on a consolidated set of comments from the WPWMA.

Consultant shall also integrate the final oil outreach campaign theme and messaging into the WPWMA website by directly logging into Wordpress to edit appropriate pages, as appropriate.

### Deliverables

#### Plans

- Draft Oil Outreach Plan submitted within 60 days of Agreement execution
- Final Oil Outreach Plan submitted within 10 days of receipt of consolidated comments
- Draft Oil Media Plan submitted within 90 days of Agreement execution
- Final Oil Media Plan submitted within 10 days of receipt of consolidated comments
- Final Oil Media Assets in electronic root file format

## **2B Oil Outreach Campaign Execution**

The Task 2B scope is included here to provide a complete process of how the campaign will progress; however, the City of Roseville will be billed directly for the bulk of this task under a separate agreement between the City of Roseville and Consultant. Consultant shall submit copies of those invoices to the WPWMA for the purpose of documentation and tracking budgets.

In order to raise awareness and drive behavior change for used motor oil and filter recycling, Consultant shall procure, manage and monitor all traditional and digital media elements per the approved Final Oil Media Plan. Traditional media buys include, but are not limited to, billboards, cinema, print and radio. Digital media includes Google display, search, social media ads, online radio ads and retargeting visitors from the One Big Bin website or email newsletter.

Consultant shall strategically analyze the paid media against key performance indicators laid out in the Final Oil Outreach Plan. In addition, Consultant shall manage the effectiveness of paid media, for example, if an asset or message under-produces on engagement, then it will be deemed ineffective. As a result, the Consultant shall refine

that particular campaign asset and messaging, as approved by WPWMA. Once refined, the asset or message can be replaced into the current-running campaign.

Using already established retail partnerships, Consultant shall secure event locations by contacting certified used motor oil locations in Placer County that accept both used motor oil filters. Consultant will schedule two oil filter exchange events. Consultant shall coordinate the store schedule, engagement from the stores, and the event promotion as detailed in the approved Final Oil Media Plan. Consultant shall procure the oil filters to be given away for free (cost not to exceed \$7,500).

#### Deliverables

- Media buy documentation for traditional and digital media
- Filter Exchange – two events

### **2C Oil Outreach Reporting**

Consultant shall prepare and submit with each monthly invoice a report detailing the oil outreach campaign efforts conducted during the prior month.

Consultant shall prepare and submit a final Program Year-End report including a summary of the monthly reports and evaluation of each campaign element and advertising method, as well as the relative effectiveness of each on the success of the overall Program. Consultant shall include a recommendation for continuation or elimination of each campaign element and shall include justifications with supporting documentation for each recommendation. Consultant shall provide all campaign element metrics and information regarding campaign return on investment.

Consultant shall provide all Oil Outreach Reports independent of the General Outreach Reports as these activities and funds must be reported separately to the State for grant purposes.

#### Deliverables

- Monthly Reports
- Year-End Report

### **TASK 3: SCHOOL OUTREACH EVALUATION**

Consultant shall prepare a draft written Strategic School Outreach Plan by conducting research and providing analysis of the current WPWMA school education program to identify recommendations for program enhancements.

#### Research

As part of the process to create a Strategic School Outreach Plan, Consultant shall review previous and current school outreach efforts, including data from surveys, collateral materials, marketing activities and school presentations. Consultant shall develop and conduct three school surveys to identify opportunities for growth.

Consultant shall also conduct a minimum of two focus groups (up to four) and attend two school assemblies.

The school surveys and focus groups shall be performed at schools that have received the WPWMA approved school assembly in the 2017-18 school year.

#### Plan

Upon completion of research Consultant shall prepare a draft Strategic School Outreach Plan that includes analysis of research findings, detailed survey and focus group reports, and an assessment of past and present communication efforts. The Plan shall also include recommendations for program and outreach effort enhancements for five years. Consultant shall submit the draft School Strategic Outreach Plan with an approximate budget and timeline for each recommended element.

After review by the WPWMA and RRG staff, WPWMA shall provide a set of consolidated comments on the draft Strategic School Outreach Plan. Based on the consolidated feedback, Consultant shall refine the Plan and submit a complete Final Strategic School Outreach Plan to the WPWMA.

#### Deliverables

- Draft Strategic School Outreach Plan submitted by December 20, 2017
- Final Strategic School Outreach Plan submitted within 15 days of receipt of consolidated comments

## HOURLY RATES AND NOT-TO-EXCEED TASK BUDGETS

### HOURLY RATES

Staff/Expense	Rate
CEO	\$200
Creative Director	\$150
Art Director	\$125
Account Director	\$125
Account Manager	\$125
Graphic Designer	\$100
Account Coordinator	\$80
Administrative	\$25

### NOT-TO-EXCEED TASK BUDGETS

Task	Description	Budget
<b>1</b>	<b>General Outreach</b>	<b>\$80,000</b>
1A	General Outreach Campaign & Media Plan	\$71,550
1B	General Outreach Campaign Execution	\$0 *these funds \$54,200 to be provided under separate Agreement with RRG jurisdictions
1C	General Outreach Reporting	\$8,450
<b>2</b>	<b>Oil Outreach</b>	<b>\$70,826</b>
2A	Oil Outreach Campaign & Media Plan	\$57,800
2B	Oil Outreach Campaign Execution	\$4,576 *other funds in the amount of \$30,000 to be provided under separate Agreement with City of Roseville
2C	Oil Outreach Reporting	\$8,450
<b>3</b>	<b>School Outreach Evaluation</b>	<b>\$15,000</b>
<b>TOTAL</b>		<b>\$165,826</b>

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**MEMORANDUM  
WESTERN PLACER WASTE MANAGEMENT AUTHORITY**

TO: **WPWMA BOARD OF DIRECTORS** DATE: **MAY 11, 2017**  
FROM: **KEN GREHM / MICHELLE WHITE**  
SUBJECT: **AGREEMENT WITH RED SHOE PRODUCTIONS FOR SCHOOL  
OUTREACH SERVICES**

**RECOMMENDED ACTION:**

Authorize the Chair, contingent upon approval by your Board of the FY 2017/18 Preliminary Budget, to sign an agreement with Red Shoe Productions to provide professional services related to the WPWMA's public education and awareness program for an amount not to exceed \$56,000.

**BACKGROUND:**

The WPWMA has historically contracted with a consultant to conduct school presentations within the WPWMA's service area to convey the WPWMA's core message that recycling and disposal is made easy by the One Big Bin system and how to handle items that do not belong in the bin such as household hazardous waste and electronic wastes.

In 2015, Placer County's Procurement Services Division solicited proposals on behalf of the WPWMA from firms providing education outreach services. The WPWMA selected the top ranked firm, Red Shoe Productions (Red Shoe), to design and implement a school outreach program. As part of their proposal, Red Shoe recommended conducting the presentations in a school assembly format (rather than by individual class) in an effort to reach more students with each presentation.

Red Shoe performed 14 presentations during the 2016/17 school year reaching approximately 3,500 students. Follow-up surveys completed by teachers indicated that Red Shoe's presentation was well received and effectively conveyed the WPWMA's core recycling messages. Additionally, staff attended several presentations and were generally impressed by Red Shoe's professionalism and engaging performance. At the end of the school year, staff conducted a focus group consisting of local teachers and representatives of the Member Agencies for the purposes of observing Red Shoe's presentation and providing feedback on ways to refine it.

Since the bulk of program development was completed during the first year of the program, staff negotiated the proposed Agreement with Red Shoe that allocates the majority of the budget (\$51,000) to school assemblies with the remainder dedicated to presentation refinements based on feedback received from the focus group. The proposed agreement requires Red Shoe to provide 17 presentations in the 2017/18 school year (to schools that did not receive a presentation in the 2016/17 school year) and is expected to reach approximately 4,200 students.

**ENVIRONMENTAL CLEARANCE:**

Development and implementation of a public education program is categorically exempt under CEQA Guidelines, Article 19, Section 15322, "Education or Training Programs Involving No Physical Changes."

**FISCAL IMPACT:**

The cost of providing the proposed services is \$56,000, funding for which is included in Account 2555 "Professional Services" of the FY 2017/18 Preliminary Budget.

ATTACHMENT: SCOPE OF SERVICES

## **EXHIBIT A SCOPE OF SERVICES**

In accordance with this Agreement, Consultant shall complete the following Scope of Services during the 2017/18 school year (August 1, 2017 through June 30, 2018).

The WPWMA provides outreach to elementary school students as part of its public education program. The outreach is intended to increase the students' awareness of how recycling occurs in western Placer County via the Materials Recovery Facility (MRF) and other solid waste issues such as waste prevention, reduction, reuse, and recycling, and items that do not belong in the waste stream. Consultant shall conduct 45-minute to 60-minute school assemblies incorporating a combination of oral presentation by two actors, video (displayed on 60" monitor provided by Consultant), premium item distribution (supplied by WPWMA) and other recycling related demonstrations and game activities as approved by the WPWMA.

### **Task 1: School Assembly Refinement**

Within one week of execution of the Agreement by all parties, Consultant shall provide a summary of Refinement Comments to be addressed from the Teacher Panel Evaluation conducted under Contract 12-2016-BP022448 executed on January 12, 2016 (Previous Contract).

Based on the Refinement Comment Summary and WPWMA's key messages, Consultant shall revise the Assembly script from the Previous Contract to further improve messaging and student engagement. Consultant shall provide the revised script to the WPWMA for review and comment. Consultant shall incorporate WPWMA's comments into a Final Script.

Upon approval by WPWMA of the Final Script, Consultant shall conduct a dress rehearsal of the assembly for feedback from WPWMA staff and representatives of jurisdictions in the WPWMA's service area. WPWMA will compile and provide comments to Consultant on the dress rehearsal and Consultant shall incorporate all comments prior to conducting the school assemblies.

After the dress rehearsal process, Consultant shall finalize the construction and development for the revised supporting set materials including, but not limited to, games, costumes, and props.

The following Deliverable dates may be amended upon approval by WPWMA's Project Manager.

#### **Deliverables**

- Refinement Comment Summary due 1 week after Agreement execution
- Draft Script due by May 31, 2017
- Final Script due by June 7, 2017
- Presentation Dress Rehearsal due by June 16
- Set Materials

### **Task 2: School Assembly Scheduling and Conducting**

Consultant shall contact and schedule assemblies for the elementary schools in the WPWMA's service area (Auburn, Colfax, Loomis, Rocklin, Roseville, Lincoln and the unincorporated area of western Placer County) as directed by the WPWMA. Consultant shall offer preference to anyone who did not receive an assembly during the Previous Contract.

Consultant shall schedule a minimum of five (5) classes per school per assembly, unless otherwise approved by the WPWMA. Consultant shall schedule a minimum of four presentations by October 27, 2017 so that focus groups and surveys can be conducted by WPWMA via an independent third party. Consultant shall make every effort to schedule the first four presentations as early in the school year as possible to accommodate the evaluation process.

Consultant shall maintain a database with the following information: 1) school name and location; 2) principal or other contact phone number and email address; 3) indication of responses, or lack thereof, to the initial solicitation; and 4) scheduled and completed assemblies, including date, time and location; number of classes per assembly; and whether or not an evaluation survey was completed by the educators who received the assembly. Consultant shall provide an electronic version of the updated schedule database to the WPWMA with monthly invoices.

Consultant shall conduct the same assembly for each school consisting of the presentation approved by WPWMA.

Consultant shall be responsible for hiring staff to conduct assemblies, and for maintaining all props, stage design and video elements necessary to execute the assemblies.

Upon completion of each assembly, Consultant shall provide follow-up educational materials to those who attended the assembly, including but not limited to literature, links, surveys and premium items for distribution to students, as provided by the WPWMA. Consultant shall also distribute a limited number of premium items to students during the assembly as incentives for participation, as provided by and approved by the WPWMA. Consultant shall provide the WPWMA an estimate of the number of fliers and premium items required for each assembly and the WPWMA will make them available for the Consultant to pick up at the WPWMA's offices during normal business hours.

Upon completion of all assemblies, Consultant shall prepare and submit a final report to the WPWMA that includes:

- Number of assemblies conducted;
- Teachers, schools and jurisdictions that received the assemblies;
- Estimated number of students who received the presentation;
- Teacher and student suggestions for program improvement;
- Successful and unsuccessful program elements;
- Consultant's recommendations for program development/improvement.

Said Scope of Work may be amended only with the prior written approval of the Consultant and the WPWMA Project Manager, however, in no event shall such amendment create any additional liability to the WPWMA.

**EXHIBIT B**  
**PAYMENT FOR SERVICES RENDERED**

Payment to Consultant shall be made by the WPWMA on an hourly basis in accordance with the schedule attached hereto as Exhibit B-1.

Consultant shall submit invoices monthly for work performed. Such invoices shall describe in detail the work and work hours performed, the person(s) performing the work, his/her hourly rate, and the expenses for which reimbursement is claimed. The invoices shall also include a spreadsheet that shows task budgets, charges by task for the current invoice, cumulative charges to date by task, and percent of budget remaining by task. Hourly time shall be stated in increments of no less than one-quarter (1/4) of an hour.

Provided the work has been satisfactorily performed, WPWMA shall pay invoices within thirty (30) days after approval of the invoice. Consultant shall provide such additional information as the WPWMA may request to verify any of the amounts claimed for payment in any invoice. The total amount payable for all services provided under this Agreement shall not exceed **(Fifty Six Thousand Dollars) (\$56,000)**.

**RATES**

<b>Staff/Expense</b>	<b>Unit</b>	<b>Rate</b>
Account Manager	Hourly	\$60
Creative Team	Hourly	\$30
Video Production Specialist	Hourly	\$50
Acting Talent	Hourly	\$200
Assembly Scheduling & Conduct	Per	\$3,000*

\*Assembly presentation rate includes all cost of coordination, scheduling, transportation, mobilization, demobilization, staffing (including acting talent) and any other associated costs and Consultant shall not invoice separately for any of these items.

### NOT-TO-EXCEED TASK BUDGETS

Task	Description	Budget
1	Assembly Refinement	\$5,000
2	Assembly Scheduling & Conducting	\$51,000
<b>TOTAL</b>		<b>\$56,000</b>

**MEMORANDUM  
WESTERN PLACER WASTE MANAGEMENT AUTHORITY**

TO: **WPWMA BOARD OF DIRECTORS**

DATE: **MAY 11, 2017**

FROM: **KEN GREHM / MICHELLE WHITE**

SUBJECT: **TEMPORARY HHW COLLECTION EVENT IN AUBURN**

**RECOMMENDED ACTION:**

Contingent upon approval by your Board of the FY 2017/18 Preliminary Budget, authorize an increase in funding to Blanket Purchase Order (BPO) 22917 with Stericycle Environmental Solutions, Inc. dba PSC Environmental Services LLC (Stericycle) of \$65,000, for the purposes of conducting a Household Hazardous Waste (HHW) and electronic waste collection event in Auburn.

**BACKGROUND:**

In addition to providing HHW disposal options to residents and businesses at its permanent facility, the WPWMA has conducted an annual HHW collection event (Event) in Auburn for the last 11 years as a more convenient disposal option for residents in outlying areas of western Placer County. A summary of attendance, quantities collected and costs for previous events is attached. This year's Event is scheduled for Saturday August 29<sup>th</sup> and Sunday August 30<sup>th</sup> at the Gold Country Fairgrounds.

In 2014, Placer County's Procurement Services Division (Procurement) solicited bids in accordance with the Public Contract Code on behalf of the WPWMA for HHW event services and received responses from two firms. Procurement determined Stericycle to be the low bidder and your Board awarded an Agreement to Stericycle on August 14, 2014 in the form of BPO 22917.

In 2015, staff worked with Procurement on renewal of this BPO and your Board approved the addition of funds to BPO 22917 for the 2015 and 2016 events. The BPO is scheduled to expire on September 30, 2017 and as such staff recommends conducting this year's event under the current agreement. However, sufficient funding is not currently available in the BPO; staff recommends increasing the BPO amount to cover the cost of this year's event and anticipates working with Procurement to conduct a competitive procurement prior to conducting next year's collection event.

**ENVIRONMENTAL CLEARANCE:**

Conducting a temporary HHW collection event is exempt under Section 15061(b)(3) of the CEQA Guidelines. Staff has determined that due to the project location, limited duration, restrictions on the acceptable amounts of materials from individual participants and the specialized training of Stericycle, the project would not have a significant effect on the environment.

**FISCAL IMPACT:**

While the cost associated with the Event depends on the level of participation and quantity and type of wastes collected, staff recommends increasing the BPO amount by \$65,000 and has included this recommended amount in Account 2555 "Professional Services" of the FY 2017/18 Preliminary Budget.

ATTACHMENT: **EVENT HISTORY SUMMARY**

## HHW TEMPORARY COLLECTION EVENT HISTORY

YEAR	PARTICIPANTS	HHW COLLECTED (pounds)	E-WASTE COLLECTED (pounds)	TOTAL EVENT COST	COST PER PARTICIPANT
2006	1,425	146,277	NA	\$97,680	\$68.55
2007	880	124,045	NA	\$92,650	\$105.28
2008	763	100,500	NA	\$80,610	\$105.65
2009	1,116	88,500	55,800	\$82,833	\$74.22
2010	1,231	99,000	40,000	\$85,181	\$69.20
2011	1,127	93,000	34,000	\$71,810	\$63.72
2012	758	73,000	26,500	\$56,595	\$74.66
2013	578	41,000	27,300	\$46,935	\$77.80
2014	1,076	77,600	21,300	\$61,733	\$57.37
2015	430	36,030	12,448	\$49,893	\$116.03
2016	750	42,324	26,400	\$62,068	\$82.76

**MEMORANDUM  
WESTERN PLACER WASTE MANAGEMENT AUTHORITY**

TO: **WPWMA BOARD OF DIRECTORS** DATE: **MAY 11, 2017**  
FROM: **KEN GREHM / MICHELLE WHITE**  
SUBJECT: **SUPPORT OF THE CALIFORNIA PRODUCT STEWARDSHIP COUNCIL**

**RECOMMENDED ACTION:**

Contingent upon approval by your Board of the FY 2017/18 Preliminary Budget, authorize payment of \$1,500 to the California Product Stewardship Council (CPSC).

**BACKGROUND:**

CPSC is a non-profit organization supported by local governments, CalRecycle, and businesses with the mission of promoting product stewardship policies and projects by shifting from a government-funded, ratepayer-financed waste management model to one that relies on extended producer responsibility (EPR). The WPWMA has supported CPSC for the past seven years because many of the waste products that CPSC targets have historically been difficult or costly for the WPWMA to market for reuse or recycling.

CPSC actively engages with the California legislature to implement EPR of wastes from mattresses and home-generated hypodermic needles (sharps) to aerosol cans and propane canisters, all of which could significantly benefit the WPWMA. CPSC is currently actively promoting the use of refillable propane canisters, which could ultimately reduce the costs the WPWMA pays to recycle the disposable version of these containers. Additionally, CPSC was instrumental in implementing the PaintCare program in California, participation in which has resulted in an annual cost savings to the WPWMA of approximately \$130,000.

Staff recommends the WPWMA continue its financial support of CPSC due to the potential benefits to the WPWMA of the EPR programs CPSC is advocating for. Staff's recommended contribution is consistent with previous payments authorized by your Board.

**ENVIRONMENTAL CLEARANCE:**


The recommended action is not considered a "project" under the California Environmental Quality Act.

**FISCAL IMPACT:**

The recommended amount of \$1,500 is a voluntary assessment; your Board may authorize another amount or decline to contribute. Staff has included funding in Account 2840 "Special Department Expense" of the FY 2017/18 Preliminary Budget for this expenditure.

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**MEMORANDUM  
WESTERN PLACER WASTE MANAGEMENT AUTHORITY**

TO: WPWMA BOARD OF DIRECTORS DATE: MAY 11, 2017  
FROM: KEN GREHM / KEITH SCHMIDT   
SUBJECT: SECOND AMENDMENT TO THE AGREEMENT WITH GOLDER FOR  
THE DESIGN, PERMITTING, AND CQA SERVICES FOR AN UPGRADE  
TO THE LANDFILL GAS COLLECTION AND CONTROL SYSTEM

**RECOMMENDED ACTION:**

Authorize the Executive Director or designee, upon review and approval by WPWMA Counsel, to sign the Second Amendment to Agreement 45172 with Golder Associates, Inc. (Golder) to provide additional electrical engineering and related services for Project 02610 – Landfill Gas Collection and Control System Upgrade for an amount not to exceed \$91,518, increasing the total not-to-exceed fee of the Agreement to \$539,076.

**BACKGROUND:**

On October 13, 2016, your Board approved the revised plans and specifications and authorized staff to solicit bids for an upgrade to the landfill gas collection and control system. The project includes an upgrade of the blower/flare station and installation of additional gas collection wells. As reported to your Board at the April 13, 2017 meeting, 14 wells have been installed and the blower/flare station upgrade components are being manufactured. All elements of the project are scheduled to be complete in the fall of 2017.

The original Agreement approved by your Board on March 12, 2015 with Golder included an assumption that the existing 240 volt electrical service would be adequate to supply the project needs. During the design phase, the 240 volt electrical service was identified as a significant constraint. Golder recommended upgrading the electrical service to reduce construction-related system downtime; ensure the blower/flare station has sufficient power capacity for the future; provide for a more consistent, reliable and safe power service; and reduce long term power costs. On July 14, 2016, your Board authorized the Executive Director to negotiate and execute the First Amendment to the Agreement, authorizing Golder to complete conceptual electrical engineering for the upgraded electrical project sufficient to solicit bids. The proposed Second Amendment addresses the final design and engineering for the upgraded electrical service as well as construction quality assurance services.

**ENVIRONMENTAL CLEARANCE:**

An Environmental Impact Report (EIR) addressing the impacts of increased landfill capacity and landfill gas generation was certified by your Board in August 2000. The EIR included the statement that "The blowers, flare, and other [landfill gas] system components would be upgraded, as needed, to accommodate increased volume of landfill gas collected." No further environmental review is required.

**FISCAL IMPACT:**

The total estimated project cost, including staff time, design, construction, construction quality assurance, and the estimated PG&E engineering and construction charges remains \$3,903,349. The requested authorization of \$91,518 included in Second Amendment is anticipated to be offset by a reduction in the \$262,000 previously identified for PG&E related costs.

Of the recommended increase to the Agreement, \$73,489 is associated with engineering and design and is expected to be completed during the current fiscal year. Sufficient funding exists in Account 2555 "Professional Services Purchased" of the FY 2016/17 Budget to encumber this amount.

The remaining \$18,029 is associated with Construction Quality Assurance services and is expected to be incurred in FY 2017/18. As such, authorization of this amount is contingent upon approval by your Board of the FY 2017/18 Preliminary Budget.

ATTACHMENTS: SECOND AMENDMENT

**ADMINISTRATING AGENCY:** Western Placer Waste Management Authority

**AGREEMENT NO.:** 45172

**DESCRIPTION:** Second Amendment to the Landfill Gas Collection and Control System Upgrades Design

This SECOND Amendment is made to be effective as of, from and after the day of \_\_\_\_\_, 2017, and between the **WESTERN PLACER WASTE MANAGEMENT AUTHORITY**, a local public agency (hereinafter referred to as the "Authority"), and **GOLDER ASSOCIATES, INC.** (hereinafter referred to as the "Consultant").

### **RECITALS**

1. The Authority and Consultant have entered into that certain "Consultant Services Agreement" for design of the 2016 Gas Collection and Control System Expansion Project as of April 22, 2015, which was amended previously as of December 28, 2016 by the First Amendment (hereinafter referred to as the "Agreement").
2. The Consultant completed conceptual electrical engineering for the upgraded electrical project sufficient to estimate total project costs and solicit construction bids. The Authority solicited bids and awarded the construction project with the electrical system upgrade work.
3. Consultant provided a proposal to complete final electrical engineering and permitting assistance, and to provide related construction quality assurance services for a total cost of \$91,518, bringing the value of this Amendment to \$539,076.
4. The Authority and Consultant wish to memorialize herein their agreement regarding the same.

### **NOW THEREFORE, THE PARTIES AGREE AS FOLLOWS:**

1. The last sentence of Provision 2, Payment, shall be replaced with the following sentence:

"The total amount payable for all services provided under this Agreement, including Additional Services, shall not exceed five hundred and thirty nine thousand seventy six dollars (\$539,076) without the prior written approval of the WPWMA."

2. Exhibit A, Scope of Services, Task C3.2 "Prepare Final Design," shall be amended to include:

"Consultant shall design, specify and layout requirements for providing new 480 VAC electrical service to the blower flare station (BFS):

1. Coordinate with PG&E Electrical Distribution Department for 480 VAC 3-phase availability.
2. Indicate location of power drop, new service and distribution equipment, and 480/240 VAC step-down transformer for existing distribution equipment.
3. Provide conduit and/or raceway plan for new and existing service and distribution equipment, including a proposed cable schedule.
4. Provide grounding plan for new and existing service and distribution equipment.
5. Provide electrical load list (existing and new) that differentiates the 480 VAC loads from the 240 VAC loads.

6. Prepare constructible layout of the new facilities (480 VAC power, flare, blower skid, compressors) in the open area on the west side of the existing BFS.
    - a. Show new service conduit routing (two iterations to accommodate pond and photovoltaic panels).
    - b. Show relocated and new equipment locations and interconnecting piping (propane tank, replacement air compressors, etc.)
    - c. Show new inlet infill header, condensate sump, BFS bypass, and discharge header piping.
    - d. Show relocated pre-engineered metal (PEM) storage building west of the BFS and yard lighting.
    - e. Detail weather canopy and foundation for 480VAC switchgear and motor control center.
  7. Prepare revised existing conditions drawing and alternative demolition / disposition drawing for changed conditions required by implementation of alternative new facilities layout.
  8. Add specification section for new electrical service and distribution equipment.
  9. Revise remaining June 2016 conformed construction drawings with changes or updates.
  10. Revise PEM building footings for supplier framing substitution.
3. Exhibit A, Scope of Services, Task C3.2 "Prepare Final Design," Deliverables and Schedules section, shall be amended to include:

"Task 3.2 Deliverables and Schedule"

**Issued for Construction Submittal** – Within fifteen (15) business days of receipt of approved PG&E permitting drawings, structural loads from the flare supplier and building supplier, and conduit pathways from the flare supplier One (1) electronic copy (.pdf) of the conformed, Issued for Construction drawings with all details necessary to construct the project with the 480 VAC improvements and replacement power service."

4. Exhibit A, Scope of Services, Task C2 "Provide Construction Phase Services," the last sentence of paragraph 1 shall be replaced with:

"For purposes of this scope and budget, Consultant has assumed it shall provide these services for five hundred and ninety (590) working hours."

5. Exhibit B, Payment for Services Rendered, shall be replaced by the enclosed Exhibit B.2.

Executed as of the day first above stated:

WESTERN PLACER WASTE MANAGEMENT AUTHORITY

By: \_\_\_\_\_ Date: \_\_\_\_\_

Executive Director, Western Placer Waste Management Authority

GOLDER ASSOCIATES, INC., CONSULTANT

By: \_\_\_\_\_

Ken Haskell, Vice President

By: \_\_\_\_\_

Michael Strain, Treasurer

Approved as to Form:

By: \_\_\_\_\_

Authority Counsel

## EXHIBIT B.2

### PAYMENT FOR SERVICES RENDERED

Payment to Consultant shall be made by the WPWMA on an hourly basis in accordance with the schedule attached hereto as Exhibit B-1.

Consultant shall submit paper copies of invoices monthly for work performed to WPWMA Accounting at 11476 C Avenue, Auburn, California, 95603. Such invoices shall describe in detail the work and work hours performed, the person(s) performing the work, his/her hourly rate, and the expenses for which reimbursement is claimed. The invoices shall also include a spreadsheet that shows task budgets, charges by task for the current invoice, cumulative charges to date by task, and percent of budget remaining by task. Hourly time shall be stated in increments of no less than one-quarter (1/4) of an hour.

Provided the work has been satisfactorily performed, the WPWMA shall pay invoices within thirty (30) days after approval of the invoice. Consultant shall provide such additional information as the WPWMA may request to verify any of the amounts claimed for payment in any invoice. The total amount payable for all services provided under this Agreement shall not exceed **five hundred and thirty nine thousand seventy six dollars (\$539,076)**.

**Table 1: Not-To-Exceed Task Budgets**

<b>Task</b>	<b>Description</b>	<b>Current Task Budget</b>	<b>Amendment 2 Changes</b>	<b>Not-to-Exceed Task Budgets</b>
1	Prepare Design Basis Memorandum and Preliminary Plan	\$52,732	\$0	\$52,732
2	Permit Assistance	\$27,525	\$0	\$27,525
3	Prepare Detailed Design			
	3.1 - Prepare 60% Design	\$86,602	\$0	\$86,602
	3.2 - Prepare Final Design	\$101,389	\$73,489	\$174,878
C1	Provide Bid and Award Services	\$45,647	\$0	\$45,647
C2	Provide Construction Phase Services	\$93,263	\$18,029	\$111,292
C3	Prepare Record Drawings and Final CQA Report	\$20,400	\$0	\$20,400
A1	Additional Services	\$20,000	\$0	\$20,000
<b>Total</b>		<b>\$447,558</b>	<b>\$91,518</b>	<b>\$539,076</b>

The WPWMA may, in its sole discretion, withhold up to ten percent (10%) of any payment as security for the completion of the work. Within thirty (30) days after approval of Consultant's final invoice, and provided all services have been satisfactorily completed, the WPWMA shall release and pay any withheld retention.

# WESTERN PLACER WASTE MGMT

## INCOME STATEMENT

*Year-to-Date Variance, March 2017 - current month*

	9 Months Ended March 31, 2017	9 Months Ended March 31, 2017 <i>Budget</i>	Variance Fav/<Unf>	% Var
INCOME				
LANDFILL/MRF OPS 51130	17,971,980.17	17,463,547.53	508,432.64	2.9 %
CLOSURE/POST CLOSURE 59513	166,313.76	168,629.22	(2,315.46)	-1.4 %
SOLID WASTE-ROAD IMPV	19,163.11	18,588.78	574.33	3.1 %
MISCELLANEOUS OTHER REV	169,987.89	218,535.03	(48,547.14)	-22.2 %
CASH OVERAGE	174.82	0.00	174.82	
TOTAL INCOME	18,327,619.75	17,869,300.56	458,319.19	2.6 %
NET INCOME	18,327,619.75	17,869,300.56	458,319.19	2.6 %
GROSS PROFIT	18,327,619.75	17,869,300.56	458,319.19	2.6 %
EXPENSES				
A-87 COSTS	120,967.00	107,506.53	(13,460.47)	-12.5 %
UNIFORMS	3,810.97	1,125.00	(2,685.97)	-238.8 %
COMMUNICATIONS	14,291.98	24,750.00	10,458.02	42.3 %
INSURANCE	67,208.00	70,876.00	3,668.00	5.2 %
GEN LIABILITY INS	42,020.98	43,020.98	1,000.00	2.3 %
PARTS	70.99	749.97	678.98	90.5 %
MAINTENANCE-EQUIP	0.00	1,874.97	1,874.97	100.0 %
MAINTENANCE-BLDGS & IMP	2,460.59	15,000.03	12,539.44	83.6 %
DUES, SUBSC, MEMB	1,334.57	1,125.00	(209.57)	-18.6 %
DEPT CASH SHORTAGE	65.41	225.00	159.59	70.9 %
PC ACQUISITION	0.00	1,350.00	1,350.00	100.0 %
PRINTING	9,760.54	12,750.03	2,989.49	23.4 %
OFF SUPPLIES & EXP	6,463.41	4,124.97	(2,338.44)	-56.7 %
POSTAGE	7,385.51	5,625.00	(1,760.51)	-31.3 %
MRF OPERATIONS	9,083,588.62	9,881,469.72	797,881.10	8.1 %
LANDFILL OPERATIONS	1,215,855.31	1,692,038.25	476,182.94	28.1 %
ADMINISTRATION	143,137.18	227,270.25	84,133.07	37.0 %
COMMISSIONERS FEES	1,400.00	2,700.00	1,300.00	48.1 %
PROF SVCS-PURCHD 51130	991,991.07	1,833,011.28	841,020.21	45.9 %
PROF/SPEC SVCS-COUNTY	43,958.19	97,499.97	53,541.78	54.9 %
PUBL & LEGAL NOTICES	6,452.36	7,499.97	1,047.61	14.0 %
COUNTYWIDE SYSTEMS	28,471.00	0.00	(28,471.00)	
RENTS & LEASES-EQUIP	0.00	2,999.97	2,999.97	100.0 %
SPECIAL DEPARTMENT EXP	480,228.87	509,182.47	28,953.60	5.7 %

	<i>9 Months Ended March 31, 2017</i>	<i>9 Months Ended March 31, 2017 Budget</i>	<i>Variance Fav/&lt;Unf&gt;</i>	<i>% Var</i>
TRAINING	1,015.00	749.97	(265.03)	-35.3 %
TRAVEL & TRANSPORTATION	564.72	2,250.00	1,685.28	74.9 %
MILEAGE	1,451.80	1,199.97	(251.83)	-21.0 %
COUNTY VEHICLE MILEAGE	7,348.35	8,062.47	714.12	8.9 %
MEALS/FOOD PURCHASES	486.03	600.03	114.00	19.0 %
UTILITIES	43,325.17	74,999.97	31,674.80	42.2 %
WTR & SEWAGE-SPEC DIS	2,662.00	749.97	(1,912.03)	-254.9 %
ENVIRONMENTAL ENGINEERING	2,082,461.83	2,179,289.97	96,828.14	4.4 %
TOTAL EXPENSES	14,410,237.45	16,811,677.71	2,401,440.26	14.3 %
INCOME FROM OPERATIONS	3,917,382.30	1,057,622.85	2,859,759.45	270.4 %
OTHER INCOME/(EXPENSES)				
EQUIPMENT	(34,510.85)	(35,000.00)	489.15	1.4 %
INTEREST REVENUE 51130	198,455.35	155,538.00	42,917.35	27.6 %
RENTS	73,555.67	67,557.78	5,997.89	8.9 %
STATE AID	8,283.16	71,250.03	(62,966.87)	-88.4 %
INT INCOME- NOTE RECEIVABLE	119,806.94	115,948.53	3,858.41	3.3 %
CONSTRUCTION PROJECTS	(883,935.84)	(2,667,912.03)	1,783,976.19	66.9 %
TOTAL OTHER INCOME/(EXPENSES)	(518,345.57)	(2,292,617.69)	1,774,272.12	77.4 %
NET INCOME BEFORE TAXES	3,399,036.73	(1,234,994.84)	4,634,031.57	375.2 %
NET INCOME	3,399,036.73	(1,234,994.84)	4,634,031.57	375.2 %

# WESTERN PLACER WASTE MGMT

## BALANCE SHEET

March 2017

### ASSETS

#### CURRENT ASSETS

CASH IN 51130	21,334,242.70
CASH IN 59513	12,200,625.81
CASH IN 59517	7,096,884.28
CASH-MARKET VALUE GAINS/LOSSES	117,115.00
CASH-MARKET VALUE GAINS/LOSSES 59513	73,245.00
CASH-MARKET VALUE GAINS/LOSSES 59517	42,738.00
ACCOUNTS RECEIVABLE	2,023,653.24
ALLOWANCE FOR UNCOLLECTED A/R	(6,167.16)
NOTES RECEIVABLE	2,852,866.53
LAND IMPROVEMENTS	9,079,390.62
LAND	13,024,847.55
BUILDINGS & IMPROVEMENTS	58,205,565.70
ACCUMULATED DEPR-B & I	(36,436,349.69)
EQUIPMENT	626,925.44
ACCUMULATED DEPR-EQUIP	(253,572.15)
ACCUMULATED DEPREC LAND IMPR	(639,426.02)
IMPREST CASH-WPWMA	8,600.00

TOTAL CURRENT ASSETS

89,351,184.85

TOTAL ASSETS

89,351,184.85

### LIABILITIES

#### CURRENT LIABILITIES

CONTRACTOR RETENTION PAYABLE	41,234.41
LANDFILL CLOSURE/POST CLOSURE	11,456,435.00
A/P FUND 51130	1,711,427.35

TOTAL CURRENT LIABILITIES

13,209,096.76

TOTAL LIABILITIES

13,209,096.76

### CAPITAL

NET ASS INSTD CAP ASS NET DEBT	43,607,381.43
NET ASSTS HLD IN TRUST	2,000,583.19
DESIGNATED FOR FA ACQUIS	8,623,772.00
RESERVE FOR FUT OCCUR 59517	7,196,920.00
DESIGNATED FOR CONTINGENCIES	9,844,237.74
GENERAL RESERVE FUND 59513	1,118,522.00
RESERVE FOR IMPREST CASH	8,600.00
RESERVE FOR HHW CLOSURE	33,431.00
DESIGNATED FOR ROAD IMPV	309,604.00
YTD NET INCOME	3,399,036.73

TOTAL CAPITAL

76,142,088.09

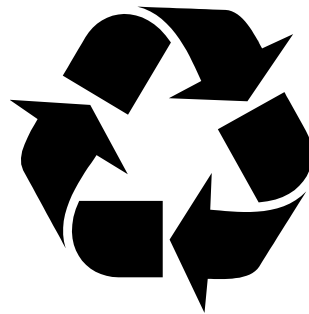
TOTAL LIABILITIES & CAPITAL

89,351,184.85

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**MATERIALS RECOVERY FACILITY  
QUARTERLY OPERATIONS REPORT  
TO  
WESTERN PLACER WASTE MANAGEMENT  
AUTHORITY**

**3<sup>RD</sup> QTR, 21<sup>ST</sup> OPERATING YEAR  
ENDING MARCH 31<sup>ST</sup>, 2017**



**NORTECH WASTE LLC  
3033 FIDDYMENT ROAD  
ROSEVILLE, CA 95747  
916-645-5230**

**OPERATIONS REPORT**  
**Materials Recovery Facility Operation**  
Quarter Ending March 31<sup>st</sup>, 2017 (3<sup>rd</sup> Qtr. 21<sup>st</sup> Operating Year)

**PROCESSED TONNAGE AND RECOVERY LEVEL:**

**Processed Tonnage:** Nortech processed 83,442 tons through the Materials Recovery Facility (MRF) during the quarter. Of this, 59,991 tons were municipal solid waste, 12,732 tons were source separated green waste, 814 tons were source separated wood waste and 9,905 tons were construction and demolition waste.

**Recovery Level:** Overall recovery for the quarter was 39.09%. Creditable recovery for the Materials Recovery Facility was 23.92% or 1.92% above the guaranteed minimum recovery level of 22%. Creditable recovery for Construction and Demolition waste was 47.62% or 2.38% below the guaranteed minimum recovery level of 50%.

**MECHANICAL PERFORMANCE OF THE MRF:**

The plant operated at 78.90% mechanical up time (401.94 hours out of 509.40 hours) during the quarter. Electrical, mechanical and other problems are maintained in spreadsheets for easy assessment of reoccurring problems and are available for Authority Staff review.

**STAFFING:**

Staffing for the period averaged 189.4 full time equivalent employees. The permanent, full time staff averaged 122.6, and contract service employees averaged 66.8. Approximately 3.2% of employees were employed on the Tipping Floor, 38.1% on the Sort Line, 5.9% in Finished Product, 2.6% in Buyback, 0.7% in Composting, 13.3% in C&D, 2.2% in HHW, 13.2% in Maintenance, 6.3% in Clean Up, 2.7% in House & Yard, 4.2% in Administration, 2.7% in Transportation, and 1.7% in Public Receiving.

**SPECIAL OCCURRENCES:**

As of June 1<sup>st</sup>, 2016, special occurrences are now reported to the Authority on a daily basis by designated Nortech staff. A brief summary of the special occurrences that occurred during the quarter are summarized below; a detailed description of each occurrence can be found in WPWMA's Special Occurrence Log.

<u>Item</u>	<u>Date</u>	<u>Location</u>	<u>Occurrence</u>
1.	1/6/17	Fiddymment Rd.	Traffic accident on Fiddymment Rd. caused power outage at the facility
2.	1/7/17	Athens Ave. Gate	Customer attempted to exit gate at 6:00 PM after close
3.	1/17/17	MRF Sort Line	Bottle of acid disbursed on line
4.	3/9/17	Z-Wall	Customer dumped large amount of HHW material

5.	3/14/17	MRF Tip Floor	Load check revealed liquid waste delivered in large containers
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**SALES:**

Sales totaled 29,500 tons for the quarter.  
Sales in tons and average price by major commodity were:

<b><u>Commodity</u></b>	<b><u>Tons</u></b>	<b><u>Average Price P/T</u></b>
ADC	8322.08	\$0.00
Aluminum Cans	82.41	\$4,389.58
Aluminum Scrap	32.91	\$453.54
Batteries	9.46	\$589.01
Cardboard	2787.31	\$175.71
Compost	3105.3	\$21.14
Compost Overs	5279.78	\$0.00
CRT's	78.16	\$159.72
E-Waste	38.7	\$41.50
Glass	673.04	\$114.37
HDPE-Colored	126.22	\$432.57
HDPE-Natural	110.23	\$596.49
Inerts	626.91	\$0.00
Misc HHW Disposal	255.82	\$0.00
Misc Recyclables (Drywall)	143.55	(\$27.35)
Mixed Rigid Large	304.74	\$117.26
Mixed Waste	610.7	\$119.53:
Newspaper	226.62	\$135.83
PET-Grade A	42.15	\$3,399.52
PET-Grade B	320.37	\$1,866.65
Scrapping Material	24.42	\$362.20
Steel	2592.48	\$93.48
Used Oil	0.96	\$260.42
Wood Chips	3705.92	\$0.17

Due to the National Sword Act in China, an Extension of the Green Fence, the Chinese market has become stricter and heavily regulated. Nortech has always made quality a priority which has helped to insure that in times like these we are still able to move material. Buyers of our paper have stated that we are the only company they are buying from because they are comfortable that our product will meet the criteria of the newer heavily regulated restrictions.

Although that is a comforting statement, we have been successful marketing and securing markets for our material domestically as well. Currently all of our Aluminum, PET, and HDPE-Colored products are being sold to domestic buyers.

With the amount of rain we have received this year, it has created new challenges for us when dealing with our Compost. Saturated ready to screen compost reacts very different than compost with its normal moisture content. While screening, we experienced screen jams much more frequently than normal. This brings the screening process to a halt, until the machine can be cleaned out. We also notice that we were not yielding the normal amount of compost from our material when screening 3/8" compost, because the compost that would normally fall through the

holes in the screen was clinging to the larger pieces of material that would typically go out as overs during the screening process. As a result of this we contracted with a third party to reprocess our overs that would go to Rio Bravo for cogeneration. The third party operated a different type of screener than we have, which makes a 5/8" material, and they were able to reduce the amount of overs. This allowed us to send a cleaner material to Rio Bravo.

We are currently on the upswing of the compost season and have contracted with three larger haulers to begin moving our finished product; we anticipate about 10 or more loads per day.

#### **TRAINING:**

- New Hire Safety Orientation – 10 employees
- Lockout/Blockout training
- Tailgate Meetings – Lockout Blockout, Traffic Around Heavy Equipment, Proper Way to Wear PPE, Equipment Operation

#### **HEALTH AND SAFETY:**

There were 1 reportable injuries for the quarter. There were zero days lost time and 0 restricted duty days. The injuries are:

<b>Date</b>	<b>Position</b>	<b>Location</b>	<b>Incident</b>
3/15/17	Cleanup	MRF	Contusion to right hand, left elbow while driving forklift, piece of metal flew up

#### **REGULATORY COMPLIANCE:**

No Violations or Areas of Concern were received by the LEA during the quarter as they relate to Nortech portions of the operation.

#### **HOUSEHOLD HAZARDOUS WASTE PROGRAM:**

A comprehensive report is submitted monthly to Authority staff that identifies types and quantities of materials, origin of persons using the facility, materials recycled, etc. In summary, 4,813 customers used the facility during the quarter, 27,310 gallons of liquid waste were processed, 9.5 tons of lead acid batteries were recycled and 15.7 tons of household batteries were recycled.

#### **SUMMARY:**

Plant operations during the quarter have been consistent with normal operations with the exception of an influx of non-recoverable C&D material being brought in to the facility. Nortech has been working with WPWMA to better identify those loads that should be sent directly to the landfill.

Respectfully Submitted,

Brian Jones  
Senior Operations Manager  
Nortech Waste, LLC

PRS:bj

CC: P. Szura, Nortech Waste  
B. Tapia, Nortech Waste  
E. Tapia, Nortech Waste  
D. Dwinger, Nortech Waste

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March 14, 2017

Western Placer Waste Management Authority  
Attn: Keith Schmidt, P.E., Senior Civil Engineer  
11476 "C" Avenue  
Auburn, CA 95603

**RE: NLI Quarterly Landfill Operations Report – 3<sup>rd</sup> Quarter of the 8<sup>th</sup> Operating Year in 2017 (January, February, March)**

Dear Mr. Schmidt,

Pursuant to Section 8.4 "Quarterly Reporting" of the Agreement between the Western Placer Waste Management Authority (Authority) and Nortech Landfill, Inc. (NLI) for operation of the Western Regional Sanitary Landfill (WRSL), NLI submits the following summary of operational activities conducted by NLI during the 3<sup>rd</sup> quarter of the 8<sup>th</sup> operating year – January, February, and March, 2017.

#### Operations

Operations included the burial of 73,933 tons of waste with no recyclable materials recovered during the quarter. Filling operations consisted of placing waste in Module 5. Other operations included the placement of 1,337 CY of soil for liner cover; 164 CY of soil for gas line cover in Module 5; and the placement of 5,282 CY of soil and 21 CY of crushed rock for seep repair.

#### Inspections

Daily load checking and random inspections were performed during the quarter. Monthly site safety inspections were performed by NLI staff, and the Local Enforcement Agency (LEA) performed three random site inspections during the quarter. During the January inspection, the LEA noted an Area of Concern regarding Daily Cover where erosion from the recent wet weather had caused some areas of waste to appear on the side slope within the active module. The Area of Concern was addressed by Nortech staff immediately. There were no other Violations or Areas of Concern as it relates to NLI portions of the landfill. Copies of all inspection reports are included in the NLI operating reports that are submitted to the Authority each month.

#### Cover Soil Utilization

NLI continues to use tarps, and reuse cover soil in order to minimize the burial of operational material. In addition, NLI uses Alternative Daily Cover (ADC) to maximize Materials Recovery Facility diversion rates and reduce the Authority's tax liability. These combined activities resulted in an average waste to operational material ratio of 1.98:1. Although lower than the 5:1 waste to operational material ratio listed in the contract, NLI is still meeting the intent of the contract by minimizing the quantity of soil and inert material to conserve air space. NLI could use less ADC but would then need to bury the ADC as residue and increase the amount of soil used.

#### Tonnages

The following table includes a summary of buried waste and operational material consumed at the WRSL for the quarter.

Month	Taxable Buried Waste (Tons)	Estimated Taxable Buried Waste (CY)*	Operational Material Utilized (CY)			Waste to Operational Material Ratio (CY)**	
			ADC	Soil	Inert	W/ADC	W/O ADC
January	22,327	32,399	3,707	629 <sup>1</sup>	0	7.36:1	57.47:1
February	21,702	22,756	3,421	5,045 <sup>2</sup>	158	2.12:1	5.44:1
March	29,904	28,576	4,741 <sup>3</sup>	9,570	0	1.98:1	3.49:1
<b>TOTAL</b>	<b>73,933</b>	<b>83,731</b>	<b>11,869</b>	<b>15,244</b>	<b>158</b>	<b>3.82:1</b>	<b>22.13:1</b>

Note: \*Estimated Taxable Buried Waste (CY) Calculated by using monthly surveyed volumes collected by NLI and subtracting the Total Operational Material Utilized

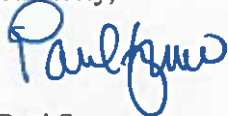
\*\*Ratio Calculated by Estimated Taxable Buried Waste divided by Total Operational Material (Volume surveyed for the quarter: 113,300 CY)

#### Compaction Results

NLI has equipped their compactor with a global positioning system (GPS) to track the amount of airspace consumed by waste each day. For the quarter, the total airspace consumed as provided by GPS survey was 113,300 cubic yards (CY). Using the scale house records of waste tonnage received and the GPS total airspace consumed, the average density of the buried waste was calculated to be 1,300 lbs/CY, which is above the contractual range of 1,100 to 1,200 lbs/CY.

Please let me know if you require any further assistance regarding this report.

Sincerely,



Paul Szura  
Contractor's Representative  
Nortech Landfill, Inc.

PRS:bt

CC: Duane Dwinger, NLI  
Roberto Del Toro, NLI  
Brian Jones, NLI

<sup>1</sup> The amount of soil used for cover was supplemented from a large amount of soil that was recovered from previous road project located at the intersection where Module 5 meets Module 6.

<sup>2</sup> Approximately 4,851 CY of this soil was used for seep repair.

<sup>3</sup> Additional ADC was used in order to cover the push lane of daily material to the open face as a result of recent extraordinary wet weather conditions.

**Nortech Landfill, Inc.**

3033 Fiddymment Road \* Roseville, CA \* (916) 645-5230 \* Fax (916) 645-5234

**MEMORANDUM  
WESTERN PLACER WASTE MANAGEMENT AUTHORITY**

TO: **WPWMA BOARD OF DIRECTORS**

DATE: **MAY 11, 2017**

FROM: **KEN GREHM / ERIC ODDO**

SUBJECT: **THIRD PARTY ANALYSIS OF THE LANDFILL GAS SYSTEM**

**RECOMMENDED ACTION:**

None. This item is for informational purposes only.

**BACKGROUND:**

As noted in the WPWMA Engineer's Report presented to your Board at the April 13<sup>th</sup> meeting, over the past year, the WPWMA has experienced an unexpected decline in the quantity of landfill gas (LFG) it has been able to collect. Staff has identified several potential factors which have likely contributed to this decline and have been working actively to resolve these issues. Currently flows of LFG have returned to approximately 90% of the pre-decline flow rate and staff anticipates that completion of the LFG system improvements currently underway will result in sustained LFG quantities above this pre-decline flow rate.

As Energy 2001's ability to generate electricity is tied directly to the WPWMA's ability to collect LFG, Energy 2001 expressed an interest to the WPWMA in performing a third party evaluation of the LFG collection system. Energy 2001 subsequently requested permission from the WPWMA to allow Specialized Biogas Services (SBS) access to the LFG system to perform the review in the hopes that SBS could provide insight into the source of the decline in LFG and provide recommendations for restoring LFG flow rates.

Following their evaluation, SBS provided a series of recommendations (which are noted in the attached Executive Summary to their report) and which are generally consistent with staff's own findings and current and planned efforts. Furthermore, staff have met on several occasions with Energy 2001 to discuss the recommendations, what portions of the recommended actions the WPWMA has already initiated or is planning to undertake, and anticipated schedules for implementing the agreed upon actions.

ATTACHMENTS: **WRSL LFG COLLECTION SYSTEM REVIEW AND RECOMMENDATIONS – EXECUTIVE SUMMARY**



**WESTERN REGIONAL SANITARY LANDFILL  
LANDFILL GAS COLLECTION SYSTEM  
REVIEW AND RECOMMENDATIONS**

**EXECUTIVE SUMMARY**

Specialized Biogas Services (SBS) performed a study to review and assess Landfill Gas (LFG) generation, collection and recovery at the Western Regional Sanitary Landfill (WRSL) in Placer County, California. The overall objective of the study was to determine the possible causes of a decrease in LFG flow to the ENERGY 2001 landfill gas-to-energy (LFGTE) power plant. ENERGY 2001 uses LFG as a fuel to generate renewable electricity. The sale of this electricity also generates royalties for the Western Placer Waste Management Authority (WPWMA), a multi-jurisdictional joint powers authority. The current decrease in LFG flow has caused the amount of renewable electricity ENERGY 2001 can generate to decrease, thereby decreasing both ENERGY 2001's revenues and royalty payments to the WPWMA.

SBS reviewed a significant amount of data and information related to the landfill, the LFG collection system, LFG generation and recovery, and power plant provided by ENERGY 2001 and landfill personnel. A two-day site visit/interview session was held. SBS then analyzed and evaluated all of the data and information gathered to reach the conclusions and recommendations detailed in this report.

In general, SBS believes the decrease in LFG flow is primarily due to a chronic condition in the landfill and LFG collection system--likely the result of clogging or blockage of LFG extraction wells and header pipes by water or other materials. This chronic decrease has been exacerbated by short-term or acute events such as a wet winter, landfill construction related interruptions, a localized subsurface fire, and delays in bringing new LFG collection online. In addition, SBS believes overall management of the LFG collection system could be improved through communication and data management techniques that would aid in returning LFG flow to maximum levels, and sustain it.

SBS makes the following specific recommendations:

1. Develop and undertake a detailed and thorough extraction well sounding, water level and well pipe condition assessment. In addition, a regular, scheduled well sounding/water level program should be done and included in an overall SOP for the LFG system O&M.
2. Depending on the results of #1, implement remediation activities that may include well replacement (including ensuring future well designs are optimized for pump installation and operation), retrofitting for pumping, or dedicated pumping wells.
3. Examine current well spacing and identify areas where additional wells can possibly "fill-in" some gaps in the Radius of Influence (ROI) and extract additional LFG.

## Specialized Biogas Services



4. Review and identify wells that offer an opportunity to increase vacuum, thus increasing flow.
  - Adding wells or tweaking wells for increased flow performance is somewhat more definable, and based on the broad review done for this report, SBS believes such actions could produce additional LFG flow in the 100-200 scfm range.
5. Make final attachments needed to bring recently installed extraction wells on-line as soon as possible.
6. Acquire and use an LFG database/analysis system such as sold by LandTec or SCS.
7. Use this report to better identify and proactively manage the data that should lead to better management of the wellfield.
8. Regular meetings and communications between ENERGY 2001, WPWMA and their consultants to review general issues, discuss wellfield/system issues and ideas to help improve gas flows.
9. Routinely discuss and identify LFG system needs in the future, and determine if early installation would provide likely LFG flow increase to plant even though not needed for compliance.
10. Evaluate and consider continuing the practice of horizontal well installation and use. Many of the horizontal collectors have and continue to be good LFG producers, and are a good short-term source of LFG before vertical wells come on-line.

The rationale and basis for the recommendations is detailed in the sections below.

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**MEMORANDUM  
WESTERN PLACER WASTE MANAGEMENT AUTHORITY**

TO: **WPWMA BOARD OF DIRECTORS** DATE: **MAY 11, 2017**  
FROM: **KEN GREHM / ERIC ODDO**  
SUBJECT: **ODOR UPDATE: ODOR NOTIFICATIONS RECEIVED IN MARCH 2017**

**RECOMMENDED ACTION:**

None. This item is for informational purposes only.

**BACKGROUND:**

During the month of March, the WPWMA received a total of 92 odor notifications from nearby residents. Of this amount, 67 notifications were received between March 10<sup>th</sup> and March 16<sup>th</sup>; 37 of which were received on Tuesday March 14<sup>th</sup> alone.

The attached figures summarize the frequency in which odor notifications have been received by the WPWMA since inception of its online odor notification system in January 2012. Figure 1 provides a summary of the number of odor notifications received each month since January 2012 while Figure 2 provides a summary of the number of odor notifications received each day during the month of March 2017.

On March 24, 2017, the Placer County Air Pollution Control District (APCD) issued the WPWMA the attached Notice of Violation No. 4048 in which the APCD alleges that:

“...the landfill was the source of the unpleasant odor. This is based on: (1) the prevailing very light breeze coming from the north and north-east direction, which is from the landfill directly toward the locations of the notifications; (2) the absence of other odors sources that would produce the type of odor described in the notifications; (3) sources of odors from your facility operations that include landfill gas fugitive surface emissions, improperly sealed landfill gas wells, landfill leachate seepage and discharges to open holding ponds, and uncovered trash deposited in the new active module.”

As a result, the APCD concluded that: “The odor caused a nuisance to the neighboring community...demonstrating a persistent unaddressed odor nuisance.”

To provide the APCD with the opportunity to independently investigate the odors reported to the WPWMA by the public, staff has included APCD staff on the email distribution list that automatically sends alerts when an odor notification has been filed with the WPWMA. It is unclear – and was not specified in Notice of Violation No. 4048 – to what degree APCD staff was able to conduct on-site investigations to independently verify whether or not the WPWMA was the source of the odors that were experienced.

In reviewing the conditions at the WPWMA's site that could have led to the increase in odors being experienced by nearby residents and results from both staff's off-site odor investigations and the WPWMA's continuous odor monitoring system, staff has determined that:

**1. Wind direction was not consistently from the north and north-east**

In many cases, the location identified by the residents filing the odor notification was upwind of the WPWMA's facility. This would suggest the possibility of an odor source other than the WPWMA's facility.

**2. Most odors were experienced outside of normal facility operational hours**

This phenomenon may be a reflection of: a) residents being away from their homes and at work or school during the hours the WPWMA's facility is operating; b) cool nighttime temperatures that may cause odors generated earlier in the day to settle near the ground surface and become more noticeable; or c) the processing of wastes at the MRF, grinding and turning compost materials, and landfilling wastes may represent a relatively small proportion of the WPWMA's overall odor potential.

**3. Odor notifications received during normal facility operating hours occur early in the operating day**

As noted above, this may be a reflection of the period of time the WPWMA's facility is operating in the morning before people have left their homes for the day. It could also be a reflection of the time and type of materials received at the facility.

Scalehouse records suggest that the receipt of wastewater treatment plant sludges (which tend to be more odiferous than other wastes) are generally received at the WPWMA's facility early in the operating day.

**4. Other nearby sources of odors likely contributed to, and in some cases may have been the primary cause of, the odors that were experienced**

While the APCD contends that there are an absence of other nearby odor sources, staff routinely notice odors from the nearby poultry farm, dairy, septage processing facility and periodically from nearby wastewater treatment plants.

In reviewing the descriptions of the odors reported by respondents, many of the odor notifications received in March described odors which could be attributed to other facilities or natural phenomena. These descriptors included: a) sewer, b) earthy/musty, and c) manure/farm animals.

Based on the results of the WPWMA's continuous odor monitoring system, of the reported odors:

- Roughly 19% reflect odors that were solely attributable to the WPWMA's operations.
- Nearly 48% reflect a combination of the odors from the WPWMA's facility and other nearby facilities.
- Approximately 33% reflect odors from non-WPWMA operations.

**5. Odors that were associated with the WPWMA's facility were likely related primarily to landfill gas**

As noted in the WPWMA Engineer's Report presented to your Board at the April 13<sup>th</sup> meeting, the WPWMA has been experiencing issues with its landfill gas collection system that prohibit the system from operating at optimal levels. In the first part of

this calendar year, staff has noted more frequent odors related to landfill gas both on-site and in close vicinity to the landfill. On October 13, 2016, your Board authorized the Executive Director to execute an agreement with R.J. Gordon to make modifications to the landfill gas collection system which are expected to significantly increase the WPWMA's ability to capture and destroy landfill gas which will have the added benefit of reducing the potential for landfill gas-related odors.

**6. Weather conditions were hampering progress on constructing improvements to the landfill gas collection system**

Due to the extremely wet winter this year, the construction project noted above to expand the gas collection system has been significantly delayed. Fourteen of the 20 wells have been drilled and their casings installed, however heavy and frequent rains delayed the contractor from installing the 3-foot thick bentonite cap and 10-foot by 10-foot geomembrane well seals from these wells.

Cornerstone recommended, and staff concurred, that existing landfill gas wells in the vicinity of the new wells should not be operated at normal levels - until the new wells seals could be completed - due to the potential of drawing oxygen into the waste through the newly drilled wells and increasing the risk of starting a subsurface landfill fire.

The well seals have since been installed on these new wells and the wells connected to the gas collection system. Cornerstone is currently in the process of activating and balancing these new wells with the rest of the gas collection system.

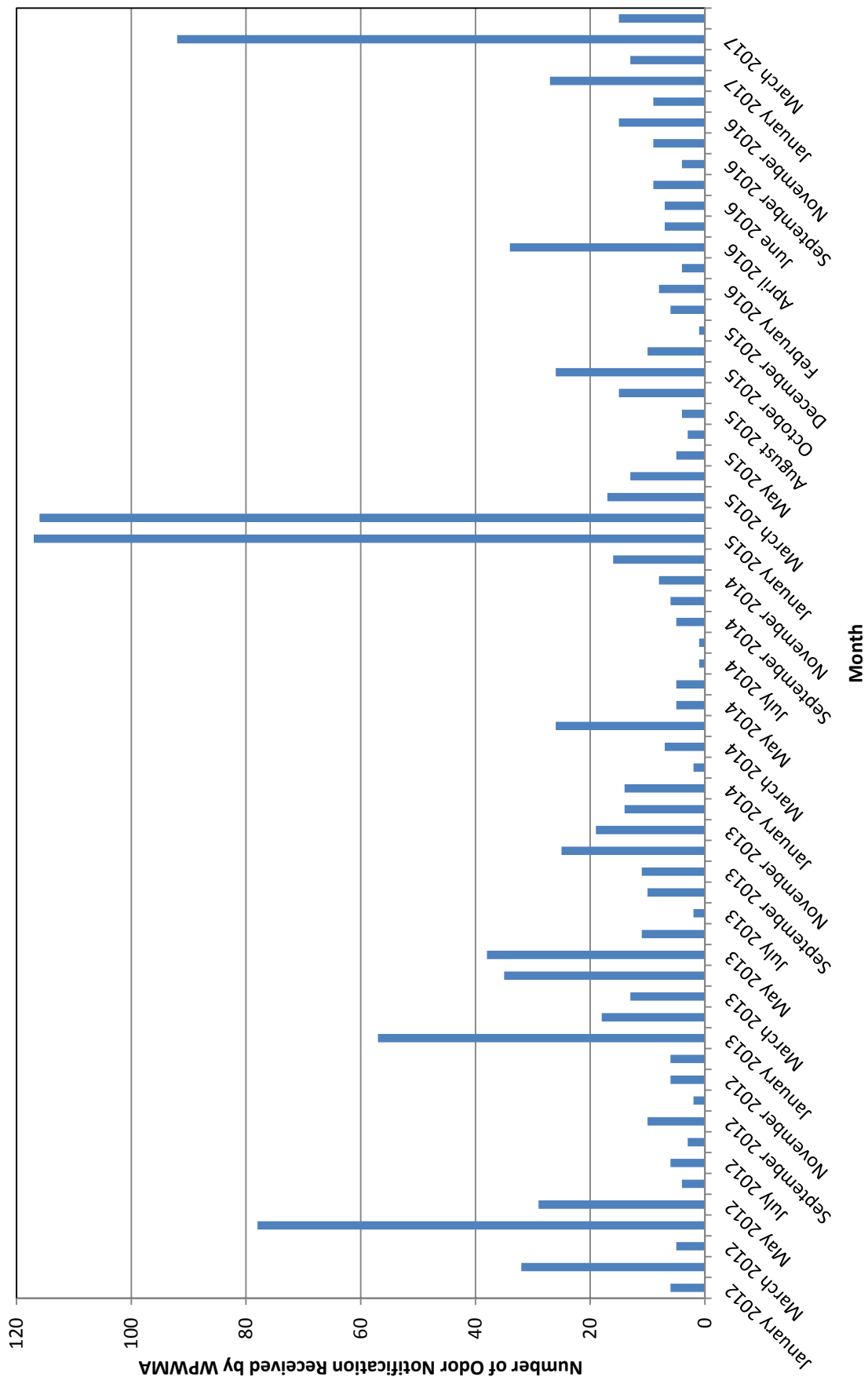
**7. Leachate seep odors were not likely experienced at off-site locations**

As reported to your Board at the April 11<sup>th</sup> meeting, between February 13<sup>th</sup> and February 21<sup>st</sup>, staff identified more than 20 leachate seeps at the landfill, most of which were occurring in the Module 5 active filling area. While leachate from these seeps did come into contact with stormwater and necessitated pumping of nearly 4,000,000 gallons of liquid to the sanitary sewer, staffs' best estimate of the actual amount of leachate that emanated from the seeps is on the order of 1,000 gallons or less. Given this relatively small amount of leachate was diluted in a considerably larger amount of otherwise clean stormwater, staff believes the potential for odors to be experienced off-site from these flows would have been negligible. Additionally, as most of the impact associated with these seeps predated the March 14<sup>th</sup> odor event by nearly a month, it is reasonable to conclude that the leachate seeps did not contribute to the odors that were reported to the WPWMA.

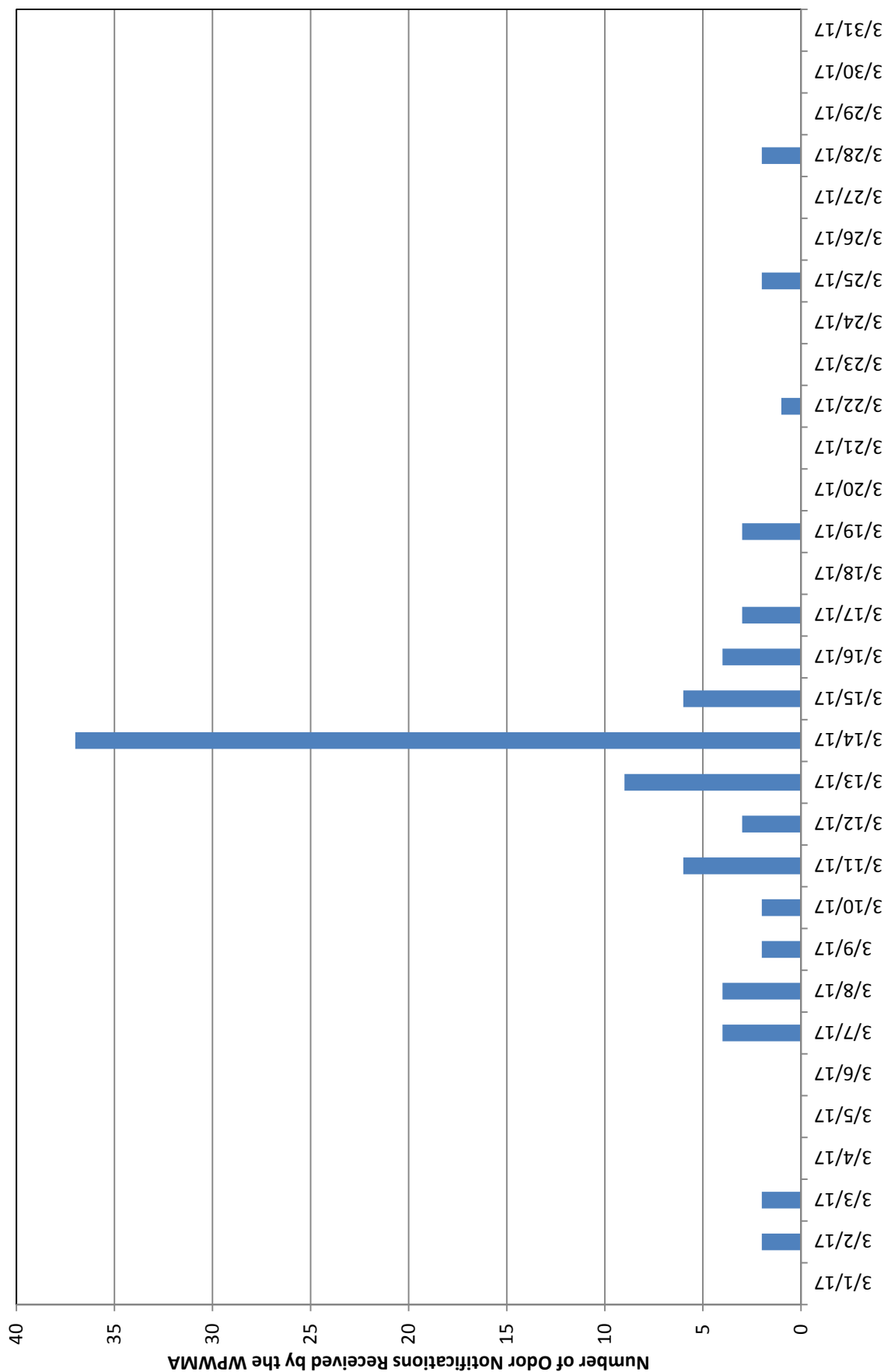
Staff has submitted the attached letter response to APCD regarding NOV 4048 and will be meeting with them in the coming weeks to further discuss the issue and resolve the violation. Staff will report back to your Board on the results of these discussions at a subsequent meeting.

ATTACHMENTS: FIGURE 1: ODOR NOTIFICATIONS REPORTED BY MONTH, 2012 TO PRESENT  
FIGURE 2: ODOR NOTIFICATIONS REPORTED BY DAY, MARCH 2017  
APCD NOTICE OF VIOLATION 4048 DATED MARCH 24, 2017  
WPWMA RESPONSE TO NOTICE OF VIOLATION 4048

**Figure 1**  
**Odor Notification History**  
**Number of Monthly Notifications Received by WPWMA**



**Figure 2**  
**Odor Notification History**  
**Number of Notifications Received by WPWMA in March 2017**



## NOTICE OF VIOLATION

March 24, 2017

Attn: Eric Oddo  
Western Placer Waste Management Authority  
11476 C Avenue  
Auburn, CA 95603

RECEIVED  
FACILITY SERVICES  
2017 MAR 30 PM 4:09

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Notice of Violation:

Number: 4048  
Date(s): March 14, 2017  
Location: 3033 Fiddymment Road, Roseville, California

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This letter is your notice that the Placer County Air Pollution Control District (District) has made the finding that you are responsible for violation(s) of District rules and regulations or state/federal air pollution laws. District rules can be viewed at <http://www.placerair.org/departments/air/rules>.

**Violation Circumstances:**

Residents at 24 separate residential locations in the North Roseville Crocker Ranch and Settler's Ridge area submitted online notifications to the Western Placer Waste Management Authority regarding unpleasant odors during the time period of 5 p.m. to 10:30 p.m. on the above date. See the attached list and map showing location of the resident that submitted the notification, date and time the odor was detected, odor intensity rating and odor description.

The District has determined that the landfill was the source of the unpleasant odor. This is based on: (1) the prevailing very light breeze coming from the north and north-east direction, which is from the landfill directly toward the locations of the notifications; (2) the absence of other odor sources that would produce the type of odor described in the notifications; (3) sources of odors from your facility operations that include landfill gas fugitive surface emissions, improperly sealed landfill gas wells, landfill leachate seepage and discharges to open holding ponds, and uncovered trash deposited in the new active module.

The odor caused a nuisance to the neighboring community. A total of 87 notifications have been submitted during the time period from March 1 – 22 demonstrating a persistent unaddressed odor nuisance. This is a violation of District Rule 205, Nuisance (and similar California Health and Safety Code Section 41700).

**Settlement Offer:**

Based upon our investigation, there is sufficient information to proceed with a civil action pursuant to California Health and Safety Code, Article 3, Section 42402. As is provided for in State law, it is the

Notice of Violation Number 4048  
March 24, 2017  
Page 2

District's policy to settle these matters through a mutual settlement process in lieu of pursuing this case in court.

The District requests a meeting at our office to discuss a resolution to this matter. Please let me know, at (530) 745-2337 or bsprings@placer.ca.gov, what time you would be available to meet at the District office.

For this violation, considered negligent emissions, you have a liability of up to \$25,000 per violation per day under California Health and Safety Code Section 42402.1.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Bruce Springsteen', with a stylized flourish extending to the right.

Bruce Springsteen  
Compliance and Enforcement Manager

Attachments: List of notifications  
Map of notifications  
Lincoln Airport Weather Data



**WESTERN PLACER**  
WASTE MANAGEMENT AUTHORITY

PAUL JOINER, LINCOLN, CHAIR  
ROBERT WEYGANDT, PLACER COUNTY  
JOHN ALLARD, ROSEVILLE  
JACK DURAN, PLACER COUNTY  
SCOTT YUILL, ROCKLIN  
KEN GREHM, EXECUTIVE DIRECTOR

May 2, 2017

Mr. Bruce Springsteen  
Placer County Air Pollution Control District  
Compliance and Enforcement  
110 Maple Street  
Auburn, CA 95603

**RE: NOTICE OF VIOLATION 4048**

Dear Mr. Springsteen:

The Western Placer Waste Management Authority (WPWMA) is in receipt of Notice of Violation No. 4048 dated March 24, 2017 (NOV) issued by the Placer County Air Pollution Control District (District). In the NOV, the District alleges that WPWMA violated District Rule 205 Nuisance and California Health and Safety Code Section 41700. As part of the settlement offer included in the NOV, the District has requested a meeting with WPWMA to discuss a resolution to the NOV.

WPWMA staff looks forward to meeting with the District to discuss this important issue. In preparation for a meeting, we are requesting the District provide additional information related to the alleged circumstances that preceded the District's issuance of the NOV.

1. In January 2012, WPWMA proactively and voluntarily instituted an on-line odor notification form on its website (WPWMA website: <http://www.WPWMA.com>; odor notification link: <https://www.surveymonkey.com/r/WpwmaOdor>) to directly solicit feedback from local residents when they experienced odors in the region. Additionally, in early 2014, WPWMA invested in a continuous odor monitoring system (COMS) to estimate the dispersion of odors from both on and off-site sources. In April 2015, WPWMA contracted with the manufacturer of the COMS to modify their proprietary software to utilize a dispersion calculation methodology that both the WPWMA and the District believed would provide a more accurate representation of odor dispersion near the WPWMA's facility. In August 2015, WPWMA contracted with an independent third party to conduct extensive on-site odor emission rate sampling the purposes of updating the emission rate factors in the COMS to more accurately represent the odor emissions potential from the WPWMA's facility. The WPWMA utilizes the COMS to evaluate facility operations and various odor mitigation strategies as well as to investigate and report on odor notifications received from the public.

*RECYCLING AND DISPOSAL MADE EASY*

11476 C AVENUE AUBURN, CA 95603  
(916) 543-3960 / (916) 543-3990 FAX  
WWW.WPWMA.COM

In an effort to be as transparent as possible about potential odors from its facility, WPWMA has voluntarily established a mechanism in which the District automatically receives: 1) the initial odor notification filed by a member of the public at the same time as WPWMA, and 2) the copy of the odor investigation results at the same time they are sent to the individual who filed the odor notification. Additionally, in an effort to provide the District with the most accurate weather data, WPWMA has been working with the manufacturer of the COMS and the WPWMA's Information Technology group to provide the District with internet access to the WPWMA's on-site weather station at a cost to the WPWMA of nearly \$10,000.

In reviewing the NOV, it appears to the WPWMA that the District has relied entirely on the information voluntarily provided by the WPWMA and weather station data obtained by the District from the Lincoln airport (located approximately 5.5 miles north of the WPWMA's facility). If this is not the case, we request copies of any other information the District has relied upon as a basis of its issuance of the NOV.

2. In the NOV, the District alleges that the WPWMA's landfill operations were responsible for creating a nuisance to the neighborhood community based on: "1) the prevailing very light breeze coming from the north and north-east direction, which is from the landfill toward the locations of the notifications; 2) the absence of other odor sources that would produce the type of odor described in the notifications; 3) sources of odors from your facility operations..."

WPWMA staff have previously identified, and shared information with the District, regarding a number of sources (in addition to WPWMA's facility) located in and around the Sunset Industrial Area, that have the potential to generate noticeable odors, including: 1) four facilities that process green and wood wastes (and that could have similar odor profiles to the WPWMA's greenwaste composting operation), 2) a dairy and a poultry farm, both located to the northwest of the WPWMA's facility, 3) a facility that manages and distributes propane, 4) three waste water treatment plants, and 5) a septage disposal facility.

Based on analysis conducted by WPWMA staff using its COMS and on-site weather station, WPWMA staff concluded that in a majority of cases the reported odors were not solely related to the WPWMA's facility and could have originated from one or more of the other potential sources listed above. WPWMA would be willing to share this information with the District.

In consideration of the more detailed analysis conducted by the WPWMA and the information provided in this letter, the WPWMA requests that the District rescind NOV 4048 or revise the NOV to accurately reflect actual circumstances. In addition, the WPWMA requests a listing of other odor-producing facilities located in or around the Sunset Industrial Area that the District has initiated separate enforcement actions against related to odors that were experienced in March 2017 along with copies of any Notices of Violation or other enforcement actions that may have been issued.

We appreciate your consideration of our request and look forward to meeting to discuss the regional odor condition.

Sincerely,

A handwritten signature in green ink, appearing to read 'WJZ', is written over a horizontal line.

Bill Zimmerman, P.E.  
Deputy Executive Director

**Directors Present:**

Paul Joiner  
Susan Rohan  
Jack Duran

**Staff Present:**

Ken Grehm            Keith Schmidt  
Bill Zimmerman    Stephanie Ulmer  
Robert Sandman    Heather Wilden

1. Call Meeting to Order: Chairman Joiner called the meeting to order at 6:02 PM.
2. Pledge of Allegiance: Chairman Rohan led the Pledge of Allegiance.
3. Roll Call: Director Weygandt and Director Yuill were absent.
4. Statement of Meeting Procedures: Heather Wilden read the Statement of Meeting Procedures into the record.
5. Agenda Approval: WPWMA Counsel recommended that Item 9a be postponed until the next meeting as there were not a majority of the directors present who were also present at the December 8<sup>th</sup> meeting.

**MOTION TO APPROVE THE AGENDA AS AMENDED:**

**Duran/Rohan**

**Vote: Unanimous**

6. Public Comment: Laura Rasmussen of Energy 2001 submitted correspondence to the WPWMA Board dated January 26, 2017 regarding the three year extension of the original lease agreement and her concern over the increased royalty rate given recent reductions in gas flows. Bill Zimmerman stated that staff will continue to work with Energy 2001 to address concerns mentioned in the letter and will provide recommendations to the Board at a subsequent meeting.
7. Consent Agenda:
  - a. Project 02466 – Module 5 Base Liner System and Module 15/16 Partial Final Cover Construction – Notice of Completion (Keith Schmidt)  
  
Staff recommended adopting Resolution 17-01 accepting Project 02466 – Module 5 Base Liner System and Module 15/16 Partial Final Cover Construction as complete, and authorizing the Executive Director or designee to execute and file the attached Notice of Completion.
  - b. Agreement with for Reimbursement of Household Hazardous Waste Collection Program Costs between the WPWMA and the County of Sacramento (Stephanie Ulmer)  
  
Staff recommended the Board authorize the Executive Director or designee, upon review and approval by WPWMA Counsel, to sign the Agreement between the WPWMA and the County of Sacramento that allows for use of

each other's household hazardous waste (HHW) facilities by Placer and Sacramento County residents and establishes a mechanism for reimbursement to each other for costs incurred by providing these "out of county" resident services a cost not to exceed \$100,000 per year.

**MOTION TO APPROVE THE CONSENT AGENDA:**

**Duran/Rohan**

**Vote: Unanimous**

8. Announcements & Information:

- a. Reports from Directors: None.
- b. Report from the Executive Director: Bill Zimmerman reported that staff is tracking a proposed modification to the condition use permit (CUP) for Rio Bravo. Bill indicated staff's intention to submit comments during the CUP process to request operational information from Rio Bravo. Bill also informed the Board of staff's intention to use the additional services provision of the landfill operations agreement to have Nortech install gas collection wells in Module 5 as filling progresses for an additional cost totaling approximately \$97,074.
- c. Financial Reports: Valerie Bayne summarized the report. There were no questions from the Board.
- d. Monthly Tonnage Reports: Keith Schmidt summarized the report. There were no questions from the Board.
- e. Auditors Report: Valerie Bayne introduced Sheba Sudahar with Vavrinek, Trine, Day to provide an executive summary of the Comprehensive Annual Financial Report for the fiscal year ending June 30, 2016. There were no questions from the Board.
- f. Quarterly MRF Operator's Report: Paul Szura summarized the report. There were no questions from the Board.
- g. Quarterly Landfill Operator's Report: Paul Szura summarized the report. There were no questions from the Board.
- h. Quarterly WPWMA Engineer's Report: Keith Schmidt summarized the report. There were no questions from the Board.
- i. 2016 Auburn HHW Collection Event Summary: Stephanie Ulmer summarized the report. There were no questions from the Board.
- j. Woody Biomass Gasification Feasibility Analysis: Keith Schmidt introduced Fred Tornatore from TSS Consultants and Will Dickinson from CPFG to provide details of this analysis. There were no questions from the Board.
- k. Letter from Nortech Waste, LLC. Re: Change in Circumstances: Stephanie Trehwhitt, President of Nortech Waste, provided an overview of a letter dated

January 31, 2017 summarizing the status of contract discussions and requested that a contract amendment be submitted as an action item in the next Board agenda. Bill Zimmerman explained that additional discussions are ongoing and staff intends to submit a recommendation to the Board at the appropriate time.

9. Action Items:

b. Conducting Solid Waste-Related Pilot Studies at the WPWMA's Facility  
(Keith Schmidt)

Staff recommended authorizing the Executive Director or designee, upon review and approval by WPWMA Counsel, to: 1) enter into individual agreements with technology vendors or 2) provide the MRF or Landfill Operator with the necessary approval and authorization to engage with technology vendors for the purposes of conducting solid waste-related pilot studies at the WPWMA's facility. Staff answered questions from the Board.

**MOTION TO APPROVE ITEM 9b:**

**Duran/Rohan**

**Vote: Unanimous**

c. Sole Source Agreement with CE Schmidt for Odor Related Measurement and Testing at the WPWMA's Facilities (Keith Schmidt)

Staff recommended authorizing the Executive Director or designee, upon review and approval by WPWMA Counsel, to sign a sole-source agreement with CE Schmidt to conduct odor related measurement studies at the WPWMA's facilities for a cost not to exceed \$150,000. Staff answered questions from the Board.

**MOTION TO APPROVE ITEM 9c:**

**Duran/Rohan**

**Vote: Unanimous**

10. Upcoming Agenda Items: Director Rohan requested a status update of the Nortech Change in Circumstances letter. Bill Zimmerman mentioned that Director Weygandt requested an update on the Master Planning project during a separate conversation.

11. Adjournment: Director Joiner explained that former Mayor and Council Member Tom Cosgrove of the City of Roseville had passed away. This meeting was adjourned at 6:49 in Tom Cosgrove's name.

Respectfully Submitted,

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Heather Wilden, Clerk of the Board  
Western Placer Waste Management Authority

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**Directors Present:**

Paul Joiner  
Robert Weygandt  
Susan Rohan  
Scott Yuill

**Staff Present:**

Bill Zimmerman      Chris Hanson  
Eric Oddo              Heather Wilden  
Gerald Carden  
Keith Schmidt

1. Call Meeting to Order: Chairman Joiner called the meeting to order at 6:00 PM.
2. Pledge of Allegiance: Director Yuill led the Pledge of Allegiance.
3. Roll Call: Director Duran was absent.
4. Statement of Meeting Procedures: Heather Wilden read the Statement of Meeting Procedures into the record.

5. Agenda Approval: No changes were made to the agenda.

6. Public Comment: Laura Rasmussen of Energy 2001 addressed the Board regarding her letter submitted in February. She expressed her gratitude to WPWMA staff for their assistance during Energy 2001's independent review of the WPWMA's landfill gas collection system and indicated she would like to present a report of the findings of this review at an upcoming scheduled meeting.

Paul Szura of Nortech noted that Nortech has hired Tetrattech to review their operations at the landfill and offer recommendations on possible operational changes or enhancements.

7. Announcements & Information:

- a. Reports from Directors: Director Weygandt provided Heather Wilden, Clerk of the Board, a service award for 15 years of service with Placer County.
- b. Report from the Executive Director: None.
- c. Financial Reports: Eric Oddo summarized the report. There were no questions from the Board.
- d. Monthly Tonnage Reports: Keith Schmidt summarized the report. There were no questions from the Board.
- e. Quarterly MRF Operator's Report: Paul Szura summarized the report. There were no questions from the Board.
- f. Quarterly Landfill Operator's Report: Paul Szura summarized the report and answered questions from the Board.
- g. Quarterly WPWMA Engineer's Report: Keith Schmidt summarized the report and answered questions from the Board.

8. Action Items:

a. Minutes of the Board Meeting held December 8, 2016

Staff recommended approving the minutes as submitted.

**MOTION TO APPROVE ITEM 9a:  
Rohan/Weygandt**

**Vote: 3:0 (Director Yuill abstained)**

b. Minutes of the Board Meeting held February 9, 2017

Staff recommended that consideration of the February 9, 2017 minutes be postponed until the next meeting as there was not a majority of the Director's present who were also present at the subject meeting.

c. Support of the SWANA Legislative Task Force

Staff recommended authorizing payment of \$2,000 to the Solid Waste Association of North America Legislative Task Force.

**MOTION TO APPROVE ITEM 9c:  
Weygandt/Yuill**

**Vote: Unanimous**

d. 2016 Legislative Summary and 2017 Legislative Strategic Agenda

Staff recommended approving the 2017 Legislative Strategic Agenda prepared by Shaw / Yoder / Antwih, Inc.

Karen Lange and Mellissa Immel of Shaw/Yoder/Antwih summarized the report and answered questions from the Board.

**MOTION TO APPROVE ITEM 9d:  
Yuill/Weygandt**

**Vote: Unanimous**

e. Facility Master Planning Project Update and Authorization to Enter Into Discussions with Rio Bravo

Staff recommended authorizing staff to enter into discussions with Rio Bravo Rocklin related to the potential feasibility of relocating their biomass operation to a portion of the WPWMA's property.

Eric Oddo summarized the report and answered questions from the Board.

**MOTION TO APPROVE ITEM 9e:  
Yuill/Weygandt**

**Vote: Unanimous**

f. Third Amendment to the Second Restated and Amended MRF Operating Agreement with Nortech Waste LLC

Staff recommended the Board:

1. Authorize the Chair to sign the Third Amendment to the Second Restated and Amended Operating Agreement with Nortech Waste LLC for operation of the Materials Recovery Facility, which modifies the Cost of Living Adjustment methodology in the Agreement.
2. Approve the attached Budget Revision canceling \$1,207,654 from Assigned Contingency reserves and increase appropriations in line item 2546 for MRF Operations to cover the increase in the processing fees paid to Nortech Waste LLC in FY 2016/17.

Eric Oddo summarized the report and answered questions from the Board.

**MOTION TO APPROVE ITEM 9f1:**

**Yuill/Weygandt**

**Vote: Unanimous**

**MOTION TO APPROVE ITEM 9f2:**

**Yuill/Weygandt**

**Vote: Unanimous**

9. Upcoming Agenda Items: None.
10. Adjournment: Meeting was adjourned at 7:00PM.
11. Respectfully Submitted,

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Heather Wilden, Clerk of the Board  
Western Placer Waste Management Authority

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**MEMORANDUM  
WESTERN PLACER WASTE MANAGEMENT AUTHORITY**

TO: **WPWMA BOARD OF DIRECTORS**

DATE: **MAY 11, 2017**

FROM: **KEN GREHM / ERIC ODDO**

SUBJECT: **EIGHTH AMENDMENT TO THE LEASE AGREEMENT ENERGY 2001**

**RECOMMENDED ACTION:**

Authorize the Chair to sign the Eighth Amendment to the Lease Agreement (Agreement) with Energy 2001 which modifies the royalty rate schedule in the Agreement.

**BACKGROUND:**

On December 11, 2014, your Board approved the Sixth Amendment to the Agreement with Energy 2001 which, among other things, extended the term of the Agreement by one year from April 9, 2017 to April 9, 2018 and increased the royalty rate paid to the WPWMA from six percent (6%) to sixteen percent (16%) on all gross revenues earned by Energy 2001. On March 10, 2016, your Board approved the Seventh Amendment to the Agreement which, among other things, extended the term of the Agreement from April 9, 2018 to June 30, 2020 and which maintained the 16% royalty rate through the remainder of the term of the Agreement. Energy 2001 has indicated that their ability to pay the royalty rate of 16% to the WPWMA was predicated on receiving a sufficient quantity of landfill gas (LFG) to operate their six engines on a consistent and regular basis.

As noted in the WPWMA Engineer's report presented to your Board at the April 13, 2017 meeting, over the past year, the WPWMA has experienced an unexpected decline in the quantity of LFG it has been able to collect. Although the WPWMA has taken positive steps towards returning those flows to levels sufficient to allow Energy 2001 to operate all six of their engines, Energy 2001 has expressed concern about the financial implications to their operation of continued or future variability in the flow of LFG they receive. In response to these concerns, Energy 2001 submitted the attached letter to your Board which requested the WPWMA consider renegotiating the royalty rate of 16% which took effect April 10, 2017.

In accordance with direction provided by your Board at the February 9, 2017 meeting, staff met with Energy 2001 and has negotiated the proposed Eighth Amendment to the Agreement (attached). The proposed amendment establishes a tiered royalty rate structure that ranges from 6% to 16% based on the actual flows of LFG made available to Energy 2001; as proposed, the applicable royalty rate will be computed on a monthly basis. If approved by your Board, the tiered royalty rate will be retroactively applied so as to become effective April 10, 2017. All other terms and conditions of the Agreement will remain unchanged.

**ENVIRONMENTAL CLEARANCE:**

The recommended action is not considered a “project” under the California Environmental Quality Act.

**FISCAL IMPACT:**

Although it is difficult to accurately quantify the potential fiscal impact to the WPWMA by virtue of the proposed Eight Amendment as it is designed primarily to address unforeseen variations and reductions in the flow of LFG delivered to Energy 2001, based on data for the preceding 12 months, the WPWMA could experience a reduction in royalties of approximately \$82,000. This data and the corresponding royalty payment estimates are provided in the attached table.

ATTACHMENTS: DIFFERENTIAL ROYALTY PAYMENT SUMMARY  
EIGHTH AMENDMENT  
LETTER DATED JANUARY 26, 2017 FROM ENERGY 2001 TO THE WPWMA

## DIFFERENTIAL ROYALTY PAYMENT SUMMARY

Month	Avg Methane Flowrate (scfm)	Adjusted Royalty Rate	Energy Production Revenues	Royalty Payment to WPWMA		
				Current Agreement	Proposed 8 <sup>th</sup> Amendment	Differential
April 2016	843	14.41%	\$248,090	\$39,694	\$35,750	(\$3,945)
May 2016	790	13.32%	\$216,228	\$34,596	\$28,802	(\$5,795)
June 2016	758	12.63%	\$189,760	\$30,362	\$23,967	(\$6,395)
July 2016	811	13.65%	\$177,551	\$28,408	\$24,236	(\$4,172)
August 2016	784	13.35%	\$211,137	\$33,782	\$28,187	(\$5,595)
September 2016	782	13.07%	\$228,193	\$36,511	\$29,825	(\$6,686)
October 2016	736	12.21%	\$223,293	\$35,727	\$27,264	(\$8,463)
November 2016	713	11.73%	\$224,896	\$35,983	\$26,380	(\$9,603)
December 2016	623	9.29%	\$191,408	\$30,625	\$17,782	(\$12,843)
January 2017	636	10.63%	\$181,139	\$28,982	\$19,255	(\$9,727)
February 2017	786	13.39%	\$195,889	\$31,342	\$26,230	(\$5,113)
March 2017	807	14.56%	\$246,093	\$39,375	\$35,831	(\$3,544)
Total			\$2,533,677	\$405,387	\$323,509	(\$81,881)

Note: The royalty payment figures noted above are for illustrative purposes only. Actual royalties earned during the period were based on the applicable royalty rate in effect at the time (i.e. 5.5% in FY 2015/16 and 6.0% in FY 2016/17 prior to April 10, 2017).

**AMENDMENT NO. 8 TO  
LANDFILL GAS COGENERATION LEASE AGREEMENT  
BETWEEN  
THE WESTERN PLACER WASTE MANAGEMENT AUTHORITY  
AND ENERGY 2001, INC.**

This Eighth Amendment ("Eighth Amendment") is made effective as of the \_\_\_\_ day of \_\_\_\_, 2017, by and between the Western Placer Waste Management Authority, hereinafter referred to as the "Authority", and Energy 2001, Inc., hereinafter referred to as the "Tenant".

**RECITALS**

WHEREAS, on May 8, 1997, the Authority and Tenant entered into a Landfill Gas Cogeneration Lease Agreement ("Lease Agreement") for the purpose of leasing property to Tenant for the construction and operation by Tenant of a landfill gas cogeneration plant, and

WHEREAS, the Authority and Tenant have previously entered into Amendment No. 1 to the Lease Agreement effective on July 1, 2002, Amendment No. 2 to the Lease Agreement effective on August 14, 2003, Amendment No. 3 to the Lease Agreement effective on May 13, 2004, Amendment No. 4 to the Lease Agreement effective on August 1, 2005, Amendment No. 5 to the Lease Agreement effective on November 10, 2011, Amendment No. 6 to the Lease Agreement effective on February 9, 2015, and Amendment No. 7 to the Lease Agreement effective on March 10, 2016, and

WHEREAS, the royalty rate paid by Tenant to Authority as established by Amendment No. 6 increased from six percent (6%) to sixteen percent (16%) effective April 10, 2017 and is scheduled to remain unchanged through the remainder of the Lease Agreement, and

WHEREAS Tenant formally notified the Authority in a letter dated January 26, 2017 that their ability to pay the royalty rate of sixteen percent (16%) to the Authority was premised on Tenant having access to a reliable flow of landfill gas sufficient to operate their six (6) internal combustion engines, and

WHEREAS despite Authority's best efforts to operate and maintain the landfill gas collection system to provide landfill gas in sufficient quantities to allow Tenant to operate their six (6) engines, Authority has experienced recent declines in the amount of landfill gas it is able to provide to Tenant, and

WHEREAS the Parties agree it is fair and reasonable to establish a tiered royalty rate structure in accordance with the quantity of landfill gas Authority is able to make available to Tenant, and

WHEREAS, on February 9, 2017, the Authority Board of Directors directed Authority staff to prepare this Eighth Amendment consistent with direction provided by the Board on that date.

NOW, THEREFORE, it is hereby agreed by the parties as follows:

- I. Section 3.2 "Royalty" shall be amended and shall read in its entirety as follows:

**“3.2 Royalty.** Tenant shall pay a Royalty Payment determined according to the schedule attached hereto as Exhibit B-4 and Exhibit B-4.1. The Royalty Payment shall be the percentage as shown in Exhibit B-4 and Exhibit B-4.1 and shall be calculated based upon the gross revenues from the sale of electricity generated on the Premises to public utilities and/or privately held utilities and/or other third parties each month during the term of this Lease Agreement (including the Term Extension), and shall include incentives, grants and all other monies received by Tenant based on the production of electricity by the Tenant on the Premises; provided, however, any tax rebate or tax credit that Tenant may claim from any city, state or federal governmental agency shall not be considered to be part of a sale of electricity for the determination of the Royalty Payment (“Gross Revenues”).

The Royalty Payment for each month shall be based upon the monies received during the previous month, regardless of when the sale occurred; provided, however, upon termination of this Lease Agreement, the final Royalty Payment shall be based upon the Gross Revenues up to the date of termination, regardless of when payment is actually received by Tenant. The obligation to pay the Royalty Payment up through the final month of the term (including the Term Extension) shall survive termination.

The monthly Royalty Payment, if any, shall be due and payable to the Authority on the first day of the month following receipt of Gross Revenues. Tenant agrees to provide to Authority, after reasonable notice, copies of records used by Tenant to calculate or otherwise determine any and all payments from Tenant to Authority under this Lease Agreement, including, without limitation records to or from the California Independent System Operator (“CAISO”).

- II. Exhibit B-3 shall be deleted and replaced with Exhibit B-4 attached hereto.
- III. Exhibit B-4.1 shall be added as attached hereto.
- IV. All other terms and conditions of the Lease Agreement as amended shall remain unchanged and in full force and effect.

IN WITNESS WHEREOF, the parties hereto have executed this Eighth Amendment effective the day and year first written above.

**Western Placer Waste Management Authority.**

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Chair  
Western Placer Waste Management Authority

**Energy 2001, Inc.**

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Laura Rasmussen  
President

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Michael McClellan  
Treasurer/Secretary

**Approved as to form:**

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Authority Counsel

## EXHIBIT B-4

### MONTHLY RENT AND ROYALTY PAYMENT SCHEDULE

Period	Monthly Rent Payment <sup>1</sup>			Royalty Rate
	Facility	Solar Array <sup>2</sup>	Total	
July 1, 2014 – June 30, 2015	\$922.50	\$39.98	\$962.48	5.0%
July 1, 2015 – June 30, 2016	\$952.50	\$41.28	\$993.78	5.5%
July 1, 2016 – April 9, 2017	\$975.00	\$100.75 <sup>3</sup>	\$1,075.75	6.0%
April 10, 2017 – June 30, 2017	\$975.00	\$100.75	\$1,075.75	See B-4.1
July 1, 2017 – June 30, 2018	\$1,005.00	\$104.00	\$1,109.00	See B-4.1
July 1, 2018 – June 30, 2019	\$1,035.00	\$107.00	\$1,142.00	See B-4.1
July 1, 2019 – June 30, 2020	\$1,066.00	\$113.00	\$1,211.00	See B-4.1

## EXHIBIT B-4.1

### DETERMINATION OF THE APPLICABLE MONTHLY ROYALTY RATE

The applicable monthly royalty rate shall be based on the following schedule:

Average Daily Methane Flowrate (scfm)	Applicable Monthly Royalty Rate
850 or greater	16%
Between 800 and 849	15%
Between 750 and 799	13%
Between 700 and 749	12%
Between 650 and 699	10%
Between 600 and 649	9%
Between 550 and 599	8%
Less than 550	6%

The Average Daily Methane Flowrate (ADMF) for the preceding month shall be computed by Authority and provided to Tenant within two (2) weeks following the end of the calendar month.

<sup>1</sup> Facility rent based on 15,000 square feet of leased land, Solar Array rent based on 650 square feet of leased land.

<sup>2</sup> Rent for the portion of the Premises used for the solar array shall become due and payable for the month that Tenant first begins improvements related to the solar array, including but not limited to the access gate from Athens Avenue to the Premises, any grading operations of the access road, erection of fencing, etc.

<sup>3</sup> Effective September 1, 2016. Between July 1, 2016 and August 31, 2016, the applicable rent for the solar array shall be \$42.25.

Authority shall compute the ADMF utilizing the data Authority collects at its landfill gas blower flare station including: 1) the flowrate of landfill gas in standard cubic feet per minute processed through Authority's blower(s), 2) the measured methane percentage of the landfill gas either by continuous monitoring or, the Authority's continuous methane meter is unavailable, the average of the instantaneous readings collected by Authority during the normal course of monitoring the landfill gas collection system, and 3) the flow of landfill gas directed to and destroyed by Authority's flare.

Authority shall compute the methane flowrate available to Tenant by multiplying the flowrate of landfill gas processed through Authority's blower(s) and the measured methane percentage of the landfill gas. This value may be decreased as noted below. Authority will average these readings over each 24-hour day period (beginning at 12:00 am and ending at 11:59 pm) to determine a daily average of the methane flow made available to Tenant. Authority will then average these daily available methane flow values for the calendar month for the purposes of determining the applicable monthly royalty rate.

In the event the Authority elects to operate its flare for any reason, the quantity of landfill gas directed to the Authority's flare shall be deducted from the quantity of landfill gas processed through Authority's blower(s) for the purposes of determining the quantity of landfill gas available to Tenant. This deduction shall not apply in the event the Authority deems the operation of its flare necessary to destroy any landfill gas that Tenant was unable or unwilling to accept.



January 26, 2017

Attn: Board of Directors  
Western Placer Waste Management Authority  
3033 Fiddymont Road  
Roseville, CA 95747

Dear WPWMA Board Members:

In April of 2017, Energy 2001 will begin a three year extension of our original lease agreement. Among other new terms, the extension includes a dramatic increase in the royalty rate (from 6% to 16%) that WPWMA will receive from Energy 2001's offsite sale of electricity generated by our 5 MW landfill gas power plant at the Western Regional Sanitary Landfill (WRSL).

As you know, what enables Energy 2001 to produce electricity and to deliver royalties to WPWMA is the gas extraction system that delivers the landfill's energy resource to our power generation facilities.

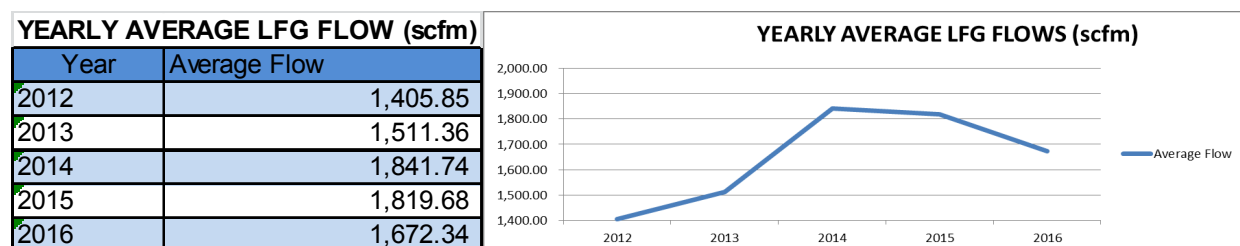
In the October 2015 WPWMA Landfill Gas Strategic Plan that was commissioned by WPWMA and adopted by the Board in March of 2016, it was noted that WPWMA "currently recovers 1700-1900 scfm with a methane concentration of 50% by volume or more."<sup>1</sup>

While there have been short-term deviations from this standard since Energy 2001 completed its plant expansion, we did rely on similar gas-flow assumptions to negotiate royalty rates for our upcoming lease term.

Over the last year, however, we have seen far more substantial and longer-term deviations from the flow standard in WPWMA's LFG strategic Plan. In fact, we have not had a single month averaging 1800 scfm gas flow since March of 2016, and have seen periods of average weekly flow as low as 1127 scfm.

The charts and graphs below illustrate average LFG flow trends over time, and what 2016 deviations from the 1800 scfm standard have meant both in terms of lost revenue for Energy 2001 and lost royalties for WPWMA.

**Chart/Graph #1: WRSL LFG Flow Trends, 2012-2016**

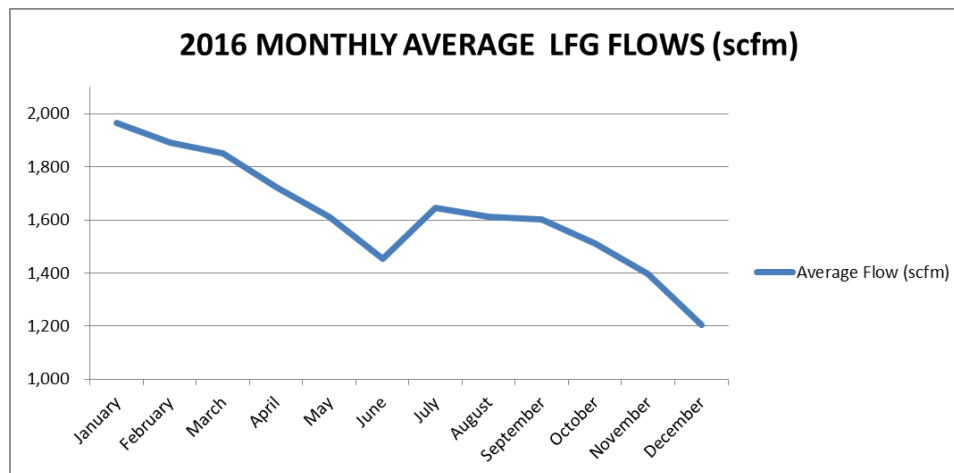


<sup>1</sup> William J. Dickinson, Capitol Public Finance Group, "Western Placer Waste Management Authority, Landfill Gas Strategic Plan," October 5, 2015, page 2.

**Chart/Graph #2: 2016 Avg. Monthly LFG Flow Trends and the cost of declines**

<b>2016 Avg. Monthly LFG Flows &amp; Cost</b>			
2016 Month	Average Flow (scfm)	<1800 scfm revenue cost for Energy 2001	<1800 scfm Royalty Cost for WPWMA
January	1,965	-	-
February	1,890	-	-
March	1,852	-	-
April	1,724	\$ 13,265.09	\$ 729.58
May	1,611	\$ 33,964.87	\$ 1,868.07
June	1,453	\$ 60,356.87	\$ 3,319.63
July	1,647	\$ 27,526.56	\$ 1,640.70
August	1,611	\$ 33,968.69	\$ 2,038.12
September	1,602	\$ 34,426.60	\$ 2,065.60
October	1,511	\$ 51,897.04	\$ 3,113.82
November	1,398	\$ 70,021.33	\$ 4,201.28
December	1,205	\$ 106,934.31	\$ 6,416.06
Totals		\$432,361.35	\$ 25,392.85

**\*Note:** We estimate that Energy 2001 has lost an additional \$254,068 in revenue in 2016 to maintain compliance with WPWMA request for consistent pressure on the blower, which has necessitated the constant operation of Energy 2001's small flare and/or WPWMA's large flare.



**Ultimately, if these trends continue, Energy 2001 would cease to be economically viable, and could be forced out of business during our upcoming (2017-2020) lease period.**

We have regularly discussed these concerns with Authority staff. Staff has outlined a number of possible causes of gas-flow problems—most of which involve questions about wellfield construction and maintenance, or filling issues, not Energy 2001's plant operations.

While maintenance of the gas extraction system is not Energy 2001's responsibility under the terms of our lease agreement<sup>2</sup>, Energy 2001 is focused on trying to be as helpful as we can to WPWMA's efforts

<sup>2</sup> Landfill Gas Co-Generation Lease Agreement Between the Western Placer Waste Management Authority and Energy 2001, Inc., "Maintenance and Repairs, Authority's Obligations," 6.1(a)

in this regard. To this end, we have invested \$10,000 to retain Bill Held, one of the nation's leading bio-gas experts to work with Staff and Cornerstone in helping to identify the source of the flow problems and to recommend solutions. We are hopeful that this good faith investment will contribute to an expedited resolution of the gas-field problems, and truly appreciate the manner in which Authority staff and Cornerstone have cooperated with his inquiry. We plan to share Mr. Held's findings with both staff and the Board in the coming weeks.

**In the interim, and in the interest of ensuring we are able to continue meeting WPWMA's landfill gas destruction and power generation needs in any gas-field contingency, we are respectfully requesting that the WPWMA Board consider directing staff to work with us in renegotiating the royalty terms of Energy 2001's April 2017-April 2020 lease period.**

Specifically, we would like the Board to consider a scaled royalty model tied to the actual amount of gas extracted and delivered to Energy 2001.

This would be the same royalty model that was developed as part of the 2020-2028 lease negotiations that were authorized by the Board and completed between Authority Staff, Energy 2001, WPWMA's Landfill Gas Strategic Plan author Will Dickinson last summer.

Under this revised royalty scenario, WPWMA would receive the same royalty rate (16%) proscribed by the upcoming lease agreement when the gas extraction system functions as expected (1800 scfm), while protecting Energy 2001 from the financial impact of long and unanticipated declines in gas flow, such as we have experienced over the past year.

Ultimately, please know that Energy 2001 very much values it's working relationship with WPWMA's Board, staff, and contractors working on the construction and maintenance of the gas extraction system.

The events of the last year have reminded all of us that landfill gas power generation is a process of continuous quality improvement. And we are confident that by modifying the royalty terms of Energy 2001's lease beginning in April 2017, we will provide the space that all parties need to execute this process in a manner that best reflects the business and environmental interests of our respective enterprises, as well as the communities we serve.

If you have any questions about this request or our plant operations, please do not hesitate to contact me. We will also be available to discuss this issue at WPWMA's February Board meeting. Thank you in advance for your thoughtful consideration.

Sincerely,



Laura Rasmussen  
President

CC: WPWMA Staff (Ken Grehm, Bill Zimmerman, Eric Oddo, Keith Schmidt)

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**MEMORANDUM  
WESTERN PLACER WASTE MANAGEMENT AUTHORITY**

TO: **WPWMA BOARD OF DIRECTORS**

DATE: **MAY 11, 2017**

FROM: **KEN GREHM / ERIC ODDO** 

SUBJECT: **FISCAL YEAR 2017/18 PRELIMINARY BUDGETS**

**RECOMMENDED ACTION:**

Approve the Fiscal Year 2017/18 Preliminary Budgets for the Operating Fund, the Closure/Postclosure Fund and the Self-Insurance Fund as presented in Exhibits A and B.

**BACKGROUND:**

The WPWMA currently operates within three budgets:

1. The **Closure/Postclosure Fund**, whose purpose is to ensure adequate funding for final closure and postclosure monitoring and maintenance of the Western Regional Sanitary Landfill.
2. The **Self Insurance Fund**, which was established to cover expenses from claims, lawsuits and damage assessments against the WPWMA.
3. The **Operating Fund**, which covers all other expenses of the WPWMA, including staff costs and the operating agreements with Nortech Waste, LLC and Nortech Landfill, Inc.

The attached Preliminary Budgets (Exhibits A and B) are based on current estimates of FY 2016/17 fund balances. Staff will request Board approval of Final Budgets after the close of Fiscal Year 2016/17.

The Preliminary Budgets were developed based on the Financial Forecast (Exhibit C) and the following key assumptions:

1. Tipping Fee Structure – No change in the tipping fee structure for FY 2017/18.
2. Tonnage – 420,348 total tons accepted, composed of mixed solid waste, sludge, green waste, commercial food waste, construction and demolition debris, wood waste and inerts.

Staff estimates that with the continuing improvement in the economy, the WPWMA will realize modest growth in the quantity of materials received at the facility. However, after taking into account tonnages associated with one-time projects as well as the effects of the unusually wet winter, staff estimates the WPWMA will realize an overall decline in waste tonnages of 0.41% compared to the quantities projected through the remainder of FY 2016/17.

3. Construction Projects – \$2,624,389 budgeted as shown at the bottom of the second page of Exhibit A. This figure includes funding for:
  - a. Construction of improvements to the landfill gas collection system;
  - b. Repair of recent water damage to the administrative offices and upgrades to drainage around portions of the exterior of portions of the building;

4. Reserve Accounts – Contribution to reserves totaling \$2,390,382.

Total fund balances and reserves at the end of the current and upcoming fiscal years are projected as follows:

	<b>FY 2016/17</b>	<b>FY 2017/18</b>
Operating Fund Budget	\$17,611,992	\$19,499,258
Closure/Postclosure Fund Budget	\$12,650,616	\$13,058,682
Self-Insurance Fund Budget	\$7,196,920	\$7,291,970
<b>Total Reserves</b>	<b>\$37,459,528</b>	<b>\$39,849,910</b>

Board approval of the FY 2017/18 Preliminary Budgets is required before the Placer County Auditor will release payment for invoices received after June 30, 2017.

**ENVIRONMENTAL CLEARANCE:**

Approval of the Preliminary Budgets does not constitute a "Project" under the California Environmental Quality Act, per CEQA Guidelines Section 15378(b)(5), because your Board does not fully commit to any individual project when approving the budgets. Appropriate environmental review will be conducted prior to your Board's approval of individual projects.

**FISCAL IMPACT:**

The Preliminary Budgets include sufficient funding to generate retained earnings for future use. Cancellation of reserves, other than the effective transfer of funds from the Closure/Postclosure General Reserve to the Landfill Closure/Postclosure Liability account, is not anticipated.

ATTACHMENTS: EXHIBIT A – OPERATING FUND PRELIMINARY BUDGET  
EXHIBIT B – CLOSURE FUND AND SELF-INSURANCE FUND PRELIMINARY BUDGETS  
EXHIBIT C – FINANCIAL FORECAST

# EXHIBIT A

## OPERATIONS FUND

	2016/17 Final Budget	2016/17 Estimated	2017/18 Prelim. Budget
<b><u>SOURCES OF FUNDS</u></b>			
RETAINED EARNINGS	3,048,804	3,048,804	4,194,382
R/E FOR ENCUMB.	0	0	0
TIPPING FEES	23,284,730	24,309,933	24,221,811
INTEREST REVENUE	207,384	263,946	202,538
INTEREST ON NOTE	154,598	154,598	112,575
GRANT FUNDS	95,000	112,013	70,860
RENT	90,077	95,961	92,735
OTHER REVENUE	7,500	10,243	7,500
ROAD IMPROVEMENT	24,785	25,902	25,803
ENERGY ROYALTIES	283,880	197,991	481,936
RESERVE CANCELLATIONS			
Fixed Assets	0	0	0
Road Improvement	0	0	0
HHW Closure	0	0	0
Imprest Cash	0	0	0
Contingencies	0	1,207,654	0
<b>TOTAL SOURCES OF FUNDS</b>	<b>27,196,757</b>	<b>29,427,046</b>	<b>29,410,140</b>
<b><u>USES OF FUNDS</u></b>			
EXPENDITURES			
Ongoing Operations	22,275,647	22,779,210	24,898,485
Major Construction Projects	4,134,822	1,667,165	2,624,389
Land Acquisition	0	0	0
<b>TOTAL EXPENDITURES</b>	<b>26,410,468</b>	<b>24,446,375</b>	<b>27,522,874</b>
ENCUMBERED FUNDS	0	0	0
EXCESS FUNDING	786,289	4,980,671	1,887,266
CONTRIBUTION TO RESERVES			
Fixed Asset Acquisition	417,311	417,311	1,216,267
Road Improvement	24,872	24,872	25,902
HHW Closure	0	0	115
Imprest Cash	0	0	0
Contingencies	344,106	344,106	644,982
<b>TOTAL CONTRIBUTION TO RESERVES</b>	<b>786,289</b>	<b>786,289</b>	<b>1,887,266</b>
AUDITOR'S YEAR END ADJUSTMENT	0	0	0
RETAINED EARNINGS	0	4,194,382	0
<b>TOTAL USES OF FUNDS</b>	<b>27,196,757</b>	<b>29,427,046</b>	<b>29,410,140</b>

## OPERATING FUND RESERVE ACCOUNT BALANCES

FIXED ASSET ACQUISITION	8,623,772	8,623,772	9,840,039
ROAD IMPROVEMENT	309,605	309,605	335,507
HHW CLOSURE	33,431	33,431	33,546
IMPREST CASH	8,600	8,600	8,600
CONTINGENCIES	9,844,238	8,636,584	9,281,566
<b>TOTAL OPERATING FUND RESERVE BALANCES</b>	<b>18,819,646</b>	<b>17,611,992</b>	<b>19,499,258</b>

APPROPRIATIONS BY ACCOUNT		2016/17	2016/17	2017/18
		Final Budget	Estimated	Prelim. Budget
UNIFORMS	2017	1,500	1,866	1,500
COMMUNICATIONS - RADIO	2050	3,000	3,000	3,075
COMMUNICATIONS - TELEPHONE	2051	30,000	21,739	25,000
INSURANCE	2130	70,876	67,208	68,888
GENERAL LIABILITY	2140	43,072	42,021	43,072
PARTS	2273	1,000	356	1,000
MAINT-EQUIP	2290	2,500	625	2,500
MAINT BLDGS	2405	20,000	18,079	20,000
DUES, SUBC, MEMB	2439	1,500	1,335	1,500
DEPT CASH SHORTAGE	2461	300	87	300
PC ACQUISITION	2481	1,800	1,900	2,000
PRINTING	2511	17,000	12,982	18,000
OFFICE SUPPLIES	2523	5,500	10,502	12,000
POSTAGE	2524	7,500	6,391	7,500
MRF OPERATIONS	2546	13,175,293	13,861,595	14,459,124
LANDFILL OPERATIONS	2547	2,256,051	2,331,051	2,418,695
CONSTRUCTION PROJECTS	2549	3,557,216	1,116,050	2,503,845
ADMINISTRATION	2550	303,027	303,027	310,603
DIRECTOR'S FEES	2554	3,600	2,300	3,600
PROF SVCS PURCH	2555	2,444,015	1,823,963	3,402,182
PROF SVCS CNTY	2556	130,000	77,795	130,000
PUBL & LEGAL NOTC	2701	10,000	8,582	15,000
RENTS & LEASES-EQUIP	2710	4,000	0	2,500
SPECIAL DEPT EXP.	2840	678,910	786,064	834,236
TRAINING	2844	1,000	1,015	2,500
TRAVEL & TRANS.	2931	3,000	565	3,000
MILEAGE	2932	1,600	1,931	2,000
COUNTY VEHICLE	2941	10,750	9,773	15,000
MEALS/FOOD PURCHASES	2964	800	876	900
UTILITIES	2965	100,000	577,622	100,000
WATER & SEWAGE	2970	1,000	2,662	1,000
ENVIRONMENTAL UTILITIES STAFF	2971	2,905,720	2,905,720	2,978,363
BAD DEBTS	3450	0	0	0
PROF SERV A-87 COSTS	3551	143,342	120,967	123,991
LAND	4001	0	0	0
LAND IMPROVEMENTS	4141	342,214	292,214	0
CAPITALIZED LAND IMPROVEMENTS	4142	0	0	0
BUILDINGS & IMPROVEMENTS	4151	48,383	0	0
CAPITALIZED BUILDINGS	4152	0	0	0
EQUIPMENT	4451	35,000	34,511	0
CAPITALIZED EQUIPMENT	4452	0	0	0
CONTINGENCIES	5600	50,000	0	10,000
<b>TOTAL APPROPRIATIONS</b>		<b>26,410,468</b>	<b>24,446,375</b>	<b>27,522,874</b>

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#### SUMMARY OF APPROPRIATIONS

Related to Ongoing Operations	22,275,647	22,779,210	24,898,485
Related to Construction Projects	4,134,822	1,667,165	2,624,389
Related to Land Acquisition	0	0	0

<b>SUB-ACCOUNT DETAIL</b>	2016/17 Final Budget	2016/17 Estimated	2017/18 Prelim. Budget
<b>2546: MRF Operations</b>			
Processing	11,069,173	12,278,196	12,575,624
HHW - Annual Fee	335,222	369,801	383,487
HHW - Disposal	1,489,022	1,136,086	1,199,656
Incentive Payment	131,876	76,587	150,357
Other Payments	150,000	925	150,000
<b>TOTAL for 2546: MRF Operations</b>	<b>13,175,293</b>	<b>13,861,595</b>	<b>14,459,124</b>
<b>2547: Landfill Operations</b>			
Basic Service Operations	2,047,807	2,047,807	2,129,155
Incentive Payments	183,244	183,244	189,540
Other Payments	25,000	100,000	100,000
<b>TOTAL for 2547: Landfill Operations</b>	<b>2,256,051</b>	<b>2,331,051</b>	<b>2,418,695</b>
<b>2549: Construction Projects</b>	<b>3,557,216</b>	<b>1,116,050</b>	<b>2,503,845</b>
<b>2555: Prof. Services Purchased</b>			
Engineering	590,276	509,188	823,000
Construction Management	152,009	224,390	120,544
Environmental	750,000	311,711	1,580,289
Legal (Non-Litigation)	60,000	975	50,000
Outside Audit	20,000	20,000	20,500
Education Program	293,662	260,121	226,826
Temporary HHW Events	65,000	62,068	65,000
Gas System Operation	480,000	415,000	495,000
Armored Transport Service	18,068	18,100	18,552
Other	15,000	2,411	2,471
<b>TOTAL for 2555: Prof. Serv. Purchased</b>	<b>2,444,015</b>	<b>1,823,963</b>	<b>3,402,182</b>
<b>2556: Prof. Services - County</b>			
LEA Charges	23,000	37,647	40,000
Counsel	50,000	25,750	50,000
Other	57,000	14,398	40,000
<b>TOTAL for 2556: Prof Services - County</b>	<b>130,000</b>	<b>77,795</b>	<b>130,000</b>
<b>2840: Special Department Expense</b>			
State Recycling Fees	355,443	391,851	378,213
Permit Related Fees	60,000	79,362	80,000
Bank Fees	43,391	47,023	46,922
CFD Costs	183,075	183,075	244,101
Other	37,000	84,754	85,000
<b>TOTAL for 2840 Spec. Dept. Expense</b>	<b>678,910</b>	<b>786,064</b>	<b>834,236</b>

**MAJOR CONSTRUCTION PROJECTS**

	Acct. No.	2016/17 Final Budget	2016/17 Estimated	2017/18 Prelim. Budget	
<b>LINER PROJECTS</b>		0	0	0	
Design	2555				
CQA	2555		61,406		
Construction	2549				
<b>COVER PROJECTS</b>					
Design	2555				
CQA	2555	5,878	5,878		
Construction	2549				
<b>GAS SYSTEM</b>					
Design	2555		73,489		
CQA	2555	113,663	51,148	80,544	
Construction	2549	3,557,216	1,068,370	2,428,845	BFS and GCCS upgrade
<b>GROUND WATER MONITORING WELLS</b>					
Design	2555				
CQA	2555	32,468	32,468		
Construction	4141	292,214	292,214		Lysimeters and water monitoring wells
<b>MRF IMPROVEMENTS</b>					
Design	4151				
CQA	4151				
Construction	4151	48,383			
Environmental Review	4151				
<b>COMPOSTING SYSTEMS</b>					
Design	2555				
CQA	2555				
Construction	2549				
Environmental Review	2549				
<b>SubOx Remedition and Repair</b>					
Design	2555			15,000	
CQA	2555			25,000	
Construction	2549			75,000	
<b>OTHER PROJECTS</b>					
Design	2555				
CQA	2555				
Construction	2549	50,000	47,681		Tree replacement near compost pad
Environmental Review	2555				
Design	4451				
CQA	4451				
Construction	4451	35,000	34,511		New aerosol processing unit/Odotech equip.
Environmental Review	4451				

**MAJOR CONSTRUCTION PROJECT APPROPRIATIONS BY ACCOUNT**

Account 2549 - Construction Projects	3,557,216	1,116,050	2,503,845
Account 2555 - Engineering	152,009	224,390	120,544
Account 4141 - Land Improvements	342,214	292,214	0
Account 4151 - Buildings & Improvements	48,383	0	0
Account 4451 - Equipment	35,000	34,511	0
<b>TOTAL</b>	<b>4,134,822</b>	<b>1,667,165</b>	<b>2,624,389</b>

<b>Tip Fee Summary</b>	2016/17 Final Budget	2016/17 Estimated	2017/18 Prelim. Budget
Tipping Fee (\$ per ton)			
MSW	69.00	69.00	69.00
C&D	47.00	47.00	47.00
Sludge and Mixed Inerts	33.00	33.00	33.00
Green Waste	36.50	36.50	36.50
Wood Waste	26.00	26.00	26.00
Food Waste	40.00	40.00	40.00
Inerts	16.00	16.00	16.00
H2O Sludge	7.50	7.50	7.50
Roseville Recyclables	30.00	30.00	30.00
Bulk Tires	175.00	175.00	175.00
Tipping Fee (\$ per cubic yard)			
MSW	14.00	14.00	14.00
C&D	14.00	14.00	14.00
Green Waste	7.00	7.00	7.00
Wood Waste	7.00	7.00	7.00
Inerts	14.00	14.00	14.00
Tipping Fee (\$ per unit)			
Appliances	5.00	5.00	5.00
CFC Devices	30.00	30.00	30.00
Car Tires	3.00	3.00	3.00
Truck Tires	17.50	17.50	17.50
Tractor Tires	70.00	70.00	70.00

#### Received Quantity Summary

MSW			
Tonnage	226,551	235,436	235,073
Yardage	81,105	87,053	87,924
C&D			
Tonnage	58,628	59,651	60,536
Yardage	39,875	37,282	37,841
Sludge and Mixed Inerts	23,111	25,712	24,696
Green Waste			
Tonnage	39,598	46,045	44,708
Yardage	29,839	30,719	30,719
Wood Waste			
Tonnage	1,256	1,481	1,354
Yardage	4,707	4,143	4,143
Food Waste	8,436	9,398	9,192
Inerts			
Tonnage	17,447	15,475	15,630
Yardage	12,980	12,779	12,907
Appliances	8,719	8,421	8,421
CFC Devices	2,906	3,029	3,029
Tires			
Car	5,645	4,613	4,613
Truck	56	109	109
Tractor	21	5	5
Bulk Tonnage	23	50	50
H2O Sludge	1,543	1,381	1,381
Roseville Recyclables	0	0	0

## EXHIBIT B

### CLOSURE / POSTCLOSURE FUND

<b><u>SOURCES OF FUNDS</u></b>	2016/17 Final Budget	2016/17 Estimated	2017/18 Prelim. Budget
RETAINED EARNINGS	(147,864)	(147,864)	0
R/E FOR ENCUMB.	0	0	0
TIPPING FEES	224,839	241,947	277,132
INTEREST REVENUE	128,280	162,364	130,934
RESERVE CANCEL - GENERAL RES.	266,021	239,528	156,804
<b>TOTAL SOURCES OF FUNDS</b>	<b>471,276</b>	<b>495,975</b>	<b>564,870</b>

#### **USES OF FUNDS**

UNRESERVED R/E - OTHER LONG TERM	0	0	0
CLOSURE/POSTCLOSURE LIABILITY ADJ.	471,276	495,975	564,870
CONTRIBUTION TO GEN RESERVES	0	0	0
<b>TOTAL USES OF FUNDS</b>	<b>471,276</b>	<b>495,975</b>	<b>564,870</b>
RETAINED EARNINGS	0	0	0

#### **C / PC RESERVE & LIABILITY ACCOUNT BALANCE**

LANDFILL CLOSURE/POSTCLOSURE LIABILITY	11,480,905	11,505,604	12,070,474
GENERAL RESERVE	1,118,519	1,145,012	988,208
<b>TOTAL C / PC RES. &amp; LIABILITY ACCT. BALANCE</b>	<b>12,599,424</b>	<b>12,650,616</b>	<b>13,058,682</b>

### SELF INSURANCE FUND

<b><u>SOURCES OF FUNDS</u></b>	2016/17 Final Budget	2016/17 Estimated	2017/18 Prelim. Budget
RETAINED EARNINGS	33,550	33,550	20,562
R/E FOR ENCUMB.	0	0	0
TIPPING FEES	0	0	0
INTEREST REVENUE	73,381	93,944	74,488
<b>TOTAL SOURCES OF FUNDS</b>	<b>106,932</b>	<b>127,494</b>	<b>95,050</b>

#### **USES OF FUNDS**

PROFESSIONAL SERVICES ACCT. 2555	0	0	0
JUDGEMENTS & DAMAGES ACCT. 3925	0	0	0
RESERVE FOR ENCUMBRANCES	0	0	0
CONTRIBUTION TO RESERVES			
General Reserve	0	0	0
Reserve for Future Occurrences	106,932	106,932	95,050
INCREASES TO LIABILITY			
Claims Payable	0	0	0
UNRESERVED R/E-OTHER LONG TERM	0	0	0
<b>TOTAL USES OF FUNDS</b>	<b>106,932</b>	<b>106,932</b>	<b>95,050</b>
RETAINED EARNINGS	0	20,562	0

#### **SELF INS. RESERVE ACCOUNT BALANCES**

General Reserve	0	0	0
Reserve for Future Occurrences	7,196,920	7,196,920	7,291,970

#### **LIABILITY ACCOUNT BALANCE**

WPWMA-Claims Payable	0	0	0
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## EXHIBIT C

### OPERATIONS FUND

#### SOURCES OF FUNDS

	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22
RETAINED EARNINGS	3,048,804	4,194,382	0	0	0	0
R/E FOR ENCUMB.	0	0	0	0	0	0
TIPPING FEES	24,309,933	24,221,811	25,193,744	25,563,436	26,030,189	27,709,527
INTEREST REVENUE	263,946	202,538	224,241	245,835	260,982	267,070
INTEREST ON NOTE	154,598	112,575	68,402	21,968	0	0
GRANT FUNDS	112,013	70,860	0	0	0	0
RENT	95,961	92,735	94,720	97,168	25,680	26,194
OTHER REVENUE	10,243	7,500	7,500	7,500	7,500	7,500
ROAD IMPROVEMENT	25,902	25,803	26,096	26,480	26,947	27,444
ENERGY ROYALTIES	197,991	481,936	516,360	550,784	600,000	600,000
RESERVE CANCELLATIONS						
Fixed Assets	0	0	0	0	0	0
Road Improvement	0	0	0	0	0	0
HHW Closure	0	0	0	0	0	0
Imprest Cash	0	0	0	0	0	0
Contingencies	1,207,654	0	0	0	0	0

#### TOTAL SOURCES OF FUNDS

29,427,046 29,410,140 26,131,062 26,513,170 26,951,299 28,637,734

#### USES OF FUNDS

EXPENDITURES						
Ongoing Operations	22,779,210	24,898,485	24,253,394	25,195,967	25,841,995	26,986,096
Major Construction Projects	1,667,165	2,624,389	0	0	580,000	0
Land Acquisition	0	0	0	0	0	0
TOTAL EXPENDITURES	24,446,375	27,522,874	24,253,394	25,195,967	26,421,995	26,986,096
ENCUMBERED FUNDS	0	0	0	0	0	0
EXCESS FUNDING	4,980,671	1,887,266	1,877,668	1,317,204	529,305	1,651,638
CONTRIBUTION TO RESERVES						
Fixed Asset Acquisition	417,311	1,216,267	1,239,677	879,532	342,965	1,128,100
Road Improvement	24,872	25,902	25,803	26,096	26,480	26,947
HHW Closure	0	115	1,006	1,037	1,068	1,100
Imprest Cash	0	0	0	0	0	0
Contingencies	344,106	644,982	611,182	410,539	158,792	495,491
TOTAL CONTRIBUTION TO RESERVES	786,289	1,887,266	1,877,668	1,317,204	529,305	1,651,638
AUDITOR'S YEAR END ADJUSTMENT	0	0	0	0	0	0
RETAINED EARNINGS	4,194,382	0	0	0	0	0
TOTAL USES OF FUNDS	29,427,046	29,410,140	26,131,062	26,513,171	26,951,300	28,637,734

#### OPERATING FUND RESERVE ACCOUNT BALANCES

FIXED ASSET ACQUISITION	8,623,772	9,840,039	11,079,716	11,959,248	12,302,213	13,430,313
ROAD IMPROVEMENT	309,605	335,507	361,310	387,406	413,886	440,833
HHW CLOSURE	33,431	33,546	34,552	35,589	36,657	37,757
IMPREST CASH	8,600	8,600	8,600	8,600	8,600	8,600
CONTINGENCIES	8,636,584	9,281,566	9,892,748	10,303,287	10,462,079	10,957,570
TOTAL OPERATING FUND RESERVE BALANCES	17,611,992	19,499,258	21,376,926	22,694,130	23,223,435	24,875,073

		2016/17	2017/18	2018/19	2019/20	2020/21	2021/22
<b>APPROPRIATIONS BY ACCOUNT</b>							
UNIFORMS	2017	1,866	1,500	1,500	1,500	1,500	1,500
COMMUNICATIONS - RADIO	2050	3,000	3,075	3,152	3,231	3,312	3,395
COMMUNICATIONS - TELEPHONE	2051	21,739	25,000	25,625	26,266	26,923	27,596
INSURANCE	2130	67,208	68,888	70,610	72,375	74,184	76,039
GENERAL LIABILITY	2140	42,021	43,072	44,149	45,253	46,384	47,544
PARTS	2273	356	1,000	1,000	1,000	1,000	1,000
MAINT-EQUIP	2290	625	2,500	2,563	2,627	2,693	2,760
MAINT BLDGS	2405	18,079	20,000	20,500	21,013	21,538	22,076
DUES, SUBC, MEMB	2439	1,335	1,500	1,500	1,500	1,500	1,500
DEPT CASH SHORTAGE	2461	87	300	300	300	300	300
PC ACQUISITION	2481	1,900	2,000	2,050	2,101	2,154	2,208
PRINTING	2511	12,982	18,000	18,450	18,911	19,384	19,869
OFFICE SUPPLIES	2523	10,502	12,000	12,300	12,608	12,923	13,246
POSTAGE	2524	6,391	7,500	7,688	7,880	8,077	8,279
MRF OPERATIONS	2546	13,861,595	14,459,124	15,151,902	15,992,047	16,980,623	18,010,192
LANDFILL OPERATIONS	2547	2,331,051	2,418,695	2,432,151	2,454,199	2,469,489	2,485,725
CONSTRUCTION PROJECTS	2549	1,116,050	2,503,845	0	0	500,000	0
ADMINISTRATION	2550	303,027	310,603	318,368	326,327	334,485	342,847
DIRECTOR'S FEES	2554	2,300	3,600	3,600	3,600	3,600	3,600
PROF SVCS PURCH	2555	1,823,963	3,402,182	1,824,808	1,797,479	1,405,843	1,304,915
PROF SVCS CNTY	2556	77,795	130,000	133,250	136,581	139,996	143,496
PUBL & LEGAL NOTC	2701	8,582	15,000	15,000	15,000	15,000	15,000
RENTS & LEASES-EQUIP	2710	0	2,500	2,563	2,627	2,693	2,760
SPECIAL DEPT EXP.	2840	786,064	834,236	843,053	851,659	863,877	878,982
TRAINING	2844	1,015	2,500	2,500	2,500	2,500	2,500
TRAVEL & TRANS.	2931	565	3,000	3,075	3,152	3,231	3,312
MILEAGE	2932	1,931	2,000	2,000	2,000	2,000	2,000
COUNTY VEHICLE	2941	9,773	15,000	15,375	15,759	16,153	16,557
MEALS/FOOD PURCHASES	2964	876	900	923	946	970	994
UTILITIES	2965	577,622	100,000	102,500	105,063	107,690	110,382
WATER & SEWAGE	2970	2,662	1,000	1,025	1,051	1,077	1,104
ENVIRONMENTAL UTILITIES STAFF	2971	2,905,720	2,978,363	3,052,822	3,129,143	3,207,371	3,287,555
BAD DEBTS	3450	0	0	0	0	0	0
PROF SERV A-87 COSTS	3551	120,967	123,991	127,091	130,268	133,525	136,863
LAND	4001	0	0	0	0	0	0
LAND IMPROVEMENTS	4141	292,214	0	0	0	0	0
CAPITALIZED LAND IMPROVEMENTS	4142	0	0	0	0	0	0
BUILDINGS & IMPROVEMENTS	4151	0	0	0	0	0	0
CAPITALIZED BUILDINGS	4152	0	0	0	0	0	0
EQUIPMENT	4451	34,511	0	0	0	0	0
CAPITALIZED EQUIPMENT	4452	0	0	0	0	0	0
CONTINGENCIES	5600	0	10,000	10,000	10,000	10,000	10,000
<b>TOTAL APPROPRIATIONS</b>		<b>24,446,375</b>	<b>27,522,874</b>	<b>24,253,394</b>	<b>25,195,967</b>	<b>26,421,995</b>	<b>26,986,096</b>
<b>SUMMARY OF APPROPRIATIONS</b>							
Related to Ongoing Operations		22,779,210	24,898,485	24,253,394	25,195,967	25,841,995	26,986,096
Related to Construction Projects		1,667,165	2,624,389	0	0	580,000	0
Related to Land Acquisition		0	0	0	0	0	0

SUB-ACCOUNT DETAIL	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22
<b>2546: MRF Operations</b>						
Processing	12,278,196	12,575,624	13,184,013	13,939,325	14,831,488	15,760,331
HHW - Annual Fee	369,801	383,487	399,212	418,289	437,337	456,386
HHW - Disposal	1,136,086	1,199,656	1,266,813	1,331,140	1,405,624	1,484,276
Incentive Payment	76,587	150,357	151,864	153,294	156,173	159,199
Other Payments	925	150,000	150,000	150,000	150,000	150,000
<b>TOTAL for 2546: MRF Operations</b>	<b>13,861,595</b>	<b>14,459,124</b>	<b>15,151,902</b>	<b>15,992,047</b>	<b>16,980,623</b>	<b>18,010,192</b>
<b>2547: Landfill Operations</b>						
Basic Service Operations	2,047,807	2,129,155	2,215,076	2,226,888	2,238,128	2,249,559
Incentive Payments	183,244	189,540	192,075	202,311	206,361	211,166
Other Payments	100,000	100,000	25,000	25,000	25,000	25,000
<b>TOTAL for 2547: Landfill Operations</b>	<b>2,331,051</b>	<b>2,418,695</b>	<b>2,432,151</b>	<b>2,454,199</b>	<b>2,469,489</b>	<b>2,485,725</b>
<b>2549: Construction Projects</b>	<b>1,116,050</b>	<b>2,503,845</b>	<b>0</b>	<b>0</b>	<b>500,000</b>	<b>0</b>
<b>2555: Prof. Services Purchased</b>						
Engineering - Non Construction	509,188	823,000	583,125	434,754	441,549	398,514
Engineering - Construction	224,390	120,544	0	0	80,000	0
Environmental	311,711	1,580,289	400,000	500,000	0	0
Legal (Non-Litigation)	975	50,000	10,000	10,250	10,506	10,769
Outside Audit	20,000	20,500	21,013	21,538	22,076	22,628
Education Program	260,121	226,826	215,122	220,500	226,012	231,662
Temporary HHW Events	62,068	65,000	66,625	68,291	69,998	71,748
Gas System Operation	415,000	495,000	507,375	520,059	533,061	546,387
Armored Transport Service	18,100	18,552	19,016	19,491	19,978	20,478
Other	2,411	2,471	2,533	2,597	2,661	2,728
<b>TOTAL for 2555: Prof. Serv. Purchased</b>	<b>1,823,963</b>	<b>3,402,182</b>	<b>1,824,808</b>	<b>1,797,479</b>	<b>1,405,843</b>	<b>1,304,915</b>
<b>2556: Prof. Services - County</b>						
LEA Charges	37,647	40,000	41,000	42,025	43,076	44,153
Counsel	25,750	50,000	51,250	52,531	53,845	55,191
Other	14,398	40,000	41,000	42,025	43,076	44,153
<b>TOTAL for 2556: Prof Services - County</b>	<b>77,795</b>	<b>130,000</b>	<b>133,250</b>	<b>136,581</b>	<b>139,996</b>	<b>143,496</b>
<b>2840: Special Department Expense</b>						
State Recycling Fees	391,851	378,213	381,039	384,701	391,681	399,120
Permit Related Fees	79,362	80,000	82,000	84,050	86,151	88,305
Bank Fees	47,023	46,922	48,788	49,504	50,408	53,633
CFD Costs	183,075	244,101	244,101	244,101	244,101	244,101
Other	84,754	85,000	87,125	89,303	91,536	93,824
<b>TOTAL for 2840 Spec. Dept. Expense</b>	<b>786,064</b>	<b>834,236</b>	<b>843,053</b>	<b>851,659</b>	<b>863,877</b>	<b>878,982</b>

		2016/17	2017/18	2018/19	2019/20	2020/21	2021/22
<b>MAJOR CONSTRUCTION PROJECTS</b>							
	Acct. No.						
LINER PROJECTS		0	0				
Design	2555						
CQA	2555	61,406					
Construction	2549						
COVER PROJECTS							
Design	2555						
CQA	2555	5,878					
Construction	2549						
GAS SYSTEM							
Design	2555	73,489				30,000	
CQA	2555	51,148	80,544			50,000	
Construction	2549	1,068,370	2,428,845			500,000	
GROUND WATER MONITORING WELLS							
Design	2555						
CQA	2555	32,468					
Construction	4141	292,214					
MRF IMPROVEMENTS							
Design	4151						
CQA	4151						
Construction	4151						
Environmental Review	4151						
COMPOSTING SYSTEMS							
Design	2555						
CQA	2555						
Construction	2549						
Environmental Review	2549						
SubOx Remedition and Repair							
Design	2555		15,000				
CQA	2555		25,000				
Construction	2549		75,000				
OTHER PROJECTS							
Design	2555						
CQA	2555						
Construction	2549	47,681					
Environmental Review	2555						
Design	4451						
CQA	4451						
Construction	4451	34,511					
Environmental Review	4451						
<b>MAJOR CONSTRUCTION PROJECT APPROPRIATIONS BY ACCOUNT</b>							
Account 2549 - Construction Projects		1,116,050	2,503,845			500,000	
Account 2555 - Engineering		224,390	120,544			80,000	
Account 4141 - Land Improvements		292,214	0				
Account 4151 - Buildings & Improvements		0	0				
Account 4451 - Equipment		34,511	0				
<b>TOTAL</b>		<b>1,667,165</b>	<b>2,624,389</b>	<b>0</b>	<b>0</b>	<b>580,000</b>	<b>0</b>

	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22
<b>Tip Fee Summary</b>						
Tipping Fee (\$ per ton)						
MSW	69.00	69.00	70.00	70.00	70.00	72.00
C&D	47.00	47.00	48.00	48.00	48.00	50.00
Sludge and Mixed Inerts	33.00	33.00	35.00	35.00	35.00	37.00
Green Waste	36.50	36.50	38.00	38.00	38.00	40.00
Wood Waste	26.00	26.00	27.00	27.00	27.00	28.00
Food Waste	40.00	40.00	42.00	42.00	42.00	44.00
Inerts	16.00	16.00	18.00	18.00	18.00	20.00
H2O Sludge	7.50	7.50	8.00	8.00	8.00	9.00
Roseville Recyclables	30.00	30.00	30.00	30.00	30.00	30.00
Bulk Tires	175.00	175.00	200.00	200.00	200.00	215.00
Tipping Fee (\$ per cubic yard)						
MSW	14.00	14.00	15.00	15.00	15.00	17.00
C&D	14.00	14.00	15.00	15.00	15.00	17.00
Green Waste	7.00	7.00	8.00	8.00	8.00	9.00
Wood Waste	7.00	7.00	8.00	8.00	8.00	9.00
Inerts	14.00	14.00	15.00	15.00	15.00	17.00
Tipping Fee (\$ per unit)						
Appliances	5.00	5.00	6.00	6.00	6.00	7.00
CFC Devices	30.00	30.00	32.00	32.00	32.00	35.00
Car Tires	3.00	3.00	3.50	3.50	3.50	4.00
Truck Tires	17.50	17.50	20.00	20.00	20.00	22.50
Tractor Tires	70.00	70.00	80.00	80.00	80.00	90.00
<b>Received Quantity Summary</b>						
MSW						
Tonnage	235,436	235,073	238,600	242,179	247,022	251,963
Yardage	87,053	87,924	89,242	90,581	92,393	94,240
C&D						
Tonnage	59,651	60,536	61,444	62,058	62,679	63,619
Yardage	37,282	37,841	38,409	38,793	39,181	39,769
Sludge and Mixed Inerts	25,712	24,696	24,386	24,873	25,371	25,878
Green Waste						
Tonnage	46,045	44,708	44,708	45,602	46,514	47,444
Yardage	30,719	30,719	30,719	31,333	31,960	32,599
Wood Waste						
Tonnage	1,481	1,354	1,368	1,381	1,395	1,409
Yardage	4,143	4,143	4,184	4,226	4,269	4,311
Food Waste	9,398	9,192	9,330	9,470	9,612	9,756
Inerts						
Tonnage	15,475	15,630	15,786	15,944	16,103	16,264
Yardage	12,779	12,907	13,036	13,166	13,298	13,431
Appliances	8,421	8,421	8,463	8,505	8,590	8,676
CFC Devices	3,029	3,029	3,044	3,059	3,090	3,121
Tires						
Car	4,613	4,613	4,636	4,659	4,706	4,753
Truck	109	109	110	111	112	113
Tractor	5	5	5	5	5	5
Bulk Tonnage	50	50	50	51	51	52
H2O Sludge	1,381	1,381	1,388	1,395	1,409	1,423
Roseville Recyclables	0	0	0	0	0	0

	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22
<b>CLOSURE / POSTCLOSURE FUND</b>						
<b><u>SOURCES OF FUNDS</u></b>						
RETAINED EARNINGS	(147,864)	0	0	0	0	0
R/E FOR ENCUMB.	0	0	0	0	0	0
TIPPING FEES	241,947	277,132	280,609	284,706	289,882	295,394
INTEREST REVENUE	162,364	130,934	135,157	139,461	143,851	148,340
RESERVE CANCEL - GENERAL RES.	239,528	156,804	167,068	173,408	259,106	279,144
<b>TOTAL SOURCES OF FUNDS</b>	<b>495,975</b>	<b>564,870</b>	<b>582,834</b>	<b>597,575</b>	<b>692,839</b>	<b>722,878</b>
<b><u>USES OF FUNDS</u></b>						
UNRESERVED R/E - OTHER LONG TERM	0	0	0	0	0	0
CLOSURE/POSTCLOSURE LIABILITY ADJ.	495,975	564,870	582,834	597,575	692,839	722,878
CONTRIBUTION TO GEN RESERVES	0	0	0	0	0	0
<b>TOTAL USES OF FUNDS</b>	<b>495,975</b>	<b>564,870</b>	<b>582,834</b>	<b>597,575</b>	<b>692,839</b>	<b>722,878</b>
RETAINED EARNINGS	0	0	0	0	0	0
<b>C / PC RESERVE &amp; LIABILITY ACCOUNT BALANCE</b>						
LANDFILL CLOSURE/POSTCLOSURE LIABILITY	11,505,604	12,070,474	12,653,308	13,250,883	13,943,722	14,666,600
GENERAL RESERVE	1,145,012	988,208	821,140	647,732	388,625	109,481
<b>TOTAL C / PC RES. &amp; LIABILITY ACCT. BALANCE</b>	<b>12,650,616</b>	<b>13,058,682</b>	<b>13,474,448</b>	<b>13,898,615</b>	<b>14,332,347</b>	<b>14,776,081</b>
<b>SELF INSURANCE FUND</b>						
<b><u>SOURCES OF FUNDS</u></b>						
RETAINED EARNINGS	33,550	20,562	0	0	0	0
R/E FOR ENCUMB.	0	0	0	0	0	0
TIPPING FEES	0	0	0	0	0	0
INTEREST REVENUE	93,944	74,488	75,472	76,253	77,042	77,840
<b>TOTAL SOURCES OF FUNDS</b>	<b>127,494</b>	<b>95,050</b>	<b>75,472</b>	<b>76,253</b>	<b>77,042</b>	<b>77,840</b>
<b><u>USES OF FUNDS</u></b>						
PROFESSIONAL SERVICES ACCT. 2555	0	0	0	0	0	0
JUDGEMENTS & DAMAGES ACCT. 3925	0	0	0	0	0	0
RESERVE FOR ENCUMBRANCES	0	0	0	0	0	0
CONTRIBUTION TO RESERVES						
General Reserve	0	0	0	0	0	0
Reserve for Future Occurrences	106,932	95,050	75,472	76,253	77,042	77,840
INCREASES TO LIABILITY						
Claims Payable	0	0	0	0	0	0
UNRESERVED R/E-OTHER LONG TERM	0	0	0	0	0	0
<b>TOTAL USES OF FUNDS</b>	<b>106,932</b>	<b>95,050</b>	<b>75,472</b>	<b>76,253</b>	<b>77,042</b>	<b>77,840</b>
ENCUMBERED FUNDS						
RETAINED EARNINGS	20,562	0	0	0	0	0
<b>SELF INS. RESERVE ACCOUNT BALANCES</b>						
General Reserve	0	0	0	0	0	0
Reserve for Future Occurrences	7,196,920	7,291,970	7,367,442	7,443,695	7,520,738	7,598,577
<b>LIABILITY ACCOUNT BALANCE</b>						
WPWMA-Claims Payable	0	0	0	0	0	0